

Lecturers' disputes solved

by David Jobbins

Solutions to two long-running disputes between college lecturers and their local authority employers were found this week.

The national joint council on conditions of service found a way out of the deadlock over the status of the 1973/75 agreement on redundancy procedures between the Committee of Local Education Authorities and the National Association of Teachers in Further and Higher Education.

Under the formula reached this week, the agreement will remain in force until further notice, but will be available as an appendix to the new codified document which draws together all other collective agreements predating the NTC.

The deal was secured with a commitment to negotiations "as

early as possible" on a new and comprehensive redundancy agreement—something Nafhe has been seeking.

But there were indications that the negotiations would be tough. The management side warned firmly that nothing in the existing recommendations—especially one year's notice of redundancy—has a right to survive in the new agreement. Talks are expected to get under way fairly soon.

The NTC also finally agreed how to implement last year's Clegg recommendation that research staff in the public sector should have their salary and conditions negotiated nationally alongside their lecturer colleagues.

The present patchwork of different methods of negotiating pay was incompatible with good industrial relations, the commission said. The

deal incorporates a way of relating research staff to Burnham scales and, on the likely assumption that it is formally ratified by the Nafhe executive today, is backdated to September.

In stringent financial circumstances it is something to have got a national framework, Nafhe's negotiating secretary, Mr Derek Weitzel, said. "We hope subsequent settlements will be more generous for these people to bring them more in line with their university counterparts."

About one third of public sector research staff are in London and the south east, where their pay is tied to education authority officials' scales. The likely effect is difficult to judge but almost all newly appointed research assistants will now start at least on point up the incremental scale, according to Nafhe.

Team to monitor chemical engineering meetings

A three-man monitoring committee is to sit in all departmental meetings of the chemical engineering department of Sheffield University for the next three years.

Inquiries by the THES have confirmed that the work of the department was the subject of a highly confidential report submitted to a meeting of the university senate last month.

Unsettled at the amount of time some department members were spending on their commitments in contracts to industry and other outside bodies, was first voiced inside the engineering faculty.

But it is understood matters came to a head after fresh doubts about the teaching inside the department were first expressed by a visiting team from the Institute of Chemical Engineers.

The ICE team visited as part of a general review of the chemical engineering department in 1978. According to the basis of academic standards design project work had to be years and is usually carried out in a laboratory.

Although accreditation in the field has not been a major criticism was sufficient to report to be put before the university.

The matter has been discussed in secret and all senior staff were asked not to discuss the report itself with anyone outside the university.

The university has invited the ICE team to discuss

Poster starts a row in Scotland

A furious row has broken out over the production of a campaign poster by Scottish Conservative students described as offensive, illegal, and "aping the worst excesses of exploitation movie advertisements".

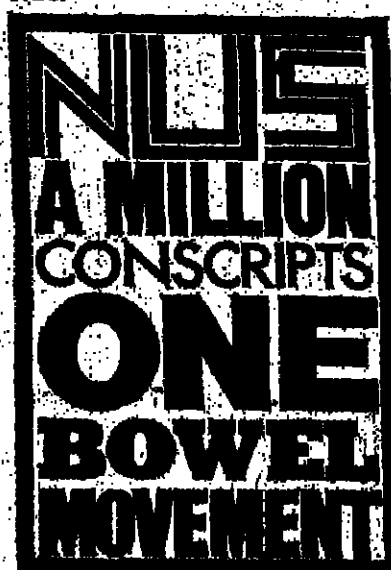
The National Union of Students is taking legal advice on the poster which appears as part of anti-NUS and pro-Government campaigns being waged by the Federation of Conservative Students (FCS).

The poster, headed "Support the Cuts", depicts a pair of hands holding a woman's breasts while another male hand uses a pair of scissors to cut the woman's bra strap.

An internal FCS newsletter reveals that the "now infamous" poster is aimed at both Marxists and feminists—and does not indicate who printed or published it. It is the case your union has policy against sexist propaganda.

In fact in law all printed material must reveal the printer and publisher. A leading article in the NUS paper, *National Student*, to be published next week describes the poster as illegal, part of a "campaign of lies".

Another FCS poster attacking the NUS.



YOP improvement plans 'completed by April'

by Patricia Santinelli

Plans to improve the quality of the Youth Opportunities Programme and transform it into a long term education and training scheme will be completed by April and become operational by the autumn, according to a confidential document discussed by the Manpower Service Commission this week.

This marks the first step towards achieving proposals made by Mr Jim Prior, secretary of state for employment, last year. He asked the commission to develop the programme so that it could eventually offer training to all young people, with as a priority the provision of education and training to all 16 and 17-year-olds not in education or

employment up until the age of 18. The commission's decision to go ahead—it has been a long held ambition since the inception of YOP to offer a permanent planned programme of training and work experience linked to further education—comes at a time when forecast figures for youth unemployment are particularly bleak. Predictions are that by the beginning of 1982 there will be nearly 300,000 unemployed teenagers, without taking account of YOP and other schemes which bring the figures nearer 600,000. This is set against a total unemployment figure of two and a half million unemployed excluding school leavers, by the middle of 1981.

The commission's plans are to ensure that no YOP entrants leave the programme after a year or more without having been given education and training which maximises their employment opportunities. Every trainee is to be equipped with a set of basic skills, knowledge and experience common to most jobs such as planning and problem solving as well as with job specific training. The latter is to be centred on transferable skills which can be used across a range of industries. A framework for this might include clusters or groups of occupations ranging from administration, agriculture, food preparation and health and welfare, each of which would be supported by an "individual" curriculum.

It warns however that the programme is no magic formula. "There is no magic formula in this required is a steady state number of different levels of training and a half years, but should result in very good progress in the next 18 months. Much of this plan is achieved through continuing the cooperation of the education sector, career guidance, employers and trade unions as key training bodies. The commission plans to develop YOP certificate and develop a real "passport to employment" which outlines young people's achievements and experience.

There are likely to be three crucial differences between this plan and the national body proposed by the Oakes committee three years ago.

- Local authorities will have only a minority rather than a majority stake in the membership of the new body.
- Money will be distributed

Delay for cost cuts at London University

by Robin McKie

Science Correspondent

There are to be more delays over the introduction of possible cuts in medical education costs at London University.

The working party on medical costs, which was expected to report this month, is now to be re-constituted and its report delayed by a further month. The decision is being carried out to allow increased clinical school representation and decrease the pre-clinical representation on the party.

The group has already investigated cost-cutting measures for pre-clinical schools and the decision to probe clinical school funding was finally rejected by Senate in October.

from the university's joint planning committee. This suggested that not only closures of pre-clinical schools be looked out, but that the working party might consider as options the complete closure of the following medical schools: the Royal Free, St Thomas's, St Mary's, St Bartholomew's, Westminster, Middlesex and Charing Cross.

The university's Senate will not discuss the issue until April now, adding further delay to the decision raised in the report of Lord Flower's committee on medical education cuts which was presented a year ago. Successive amendments to this report were made by university committees until the altered report was finally rejected by Senate in October.

The working party on medical costs was set up by Senate instead and is to prepare a series of cost-cutting options which will be examined and acted upon by the joint planning committee and the Senate.

However, the party is unlikely to present the JPC with a set of clear-cut options. For one thing, it has found there will be little point in closing relatively cheaply run schools, such as St Bartholomew's and Guy's, and moving students to more expensive schools such as the Royal Free, the Charing Cross, and St George's. Yet these more expensive schools are the newer ones and it is politically unlikely they will be closed.

Glasgow cuts

from page one

It has said that the situation is worse than even the lowest theoretical figure for future output to the universities for next year.

The UGC will give public home student numbers, and broad distribution of the population in 1983-84 is expected to be at the same level as which will require reduction in the number of students. At Lancaster University, discussions are still taking place about the possibility of a rapid 17 per cent fall in the number of lecturers employed—probably through large-scale redundancies.

The gloomy predictions are contained in a briefing document prepared by the Department of Education and Science for a meeting yesterday between Mr Carlisle, the education secretary, and members of the Council of Local Education Authorities.

The document reveals that the new reductions planned up to 1983-84 are smaller than others under earlier consideration by the Government. But it adds: "Even these reductions are fairly substantial. They imply a further 5 per cent decline in net expenditure on AFE over two years beyond the level now planned for 1981-82."

"If savings of this order are to be secured without significant loss of quality, the implication is that some degree of rationalisation will be called for."

According to a table below contained in the document, the Government expects to achieve the savings through a rapid reduction in the number of lecturers employed and increases in class sizes.

This strategy is designed to maintain student numbers, whereas earlier plans for bigger reductions predicted admissions declining by 3,000 students in 1981-82, 2,000 in 1982-83 and 3,000 in 1983-84.

The document reveals that last year's White Paper had assumed a 13 per cent fall in lecturer numbers between 1978-79 and 1983-84. In fact lecturer numbers have remained constant over the past two years and the new fall of 17 per cent will have to be compressed into the remaining time before January, 1984.

For local authority education spending as a whole, the document forecasts a new cut of £145m in 1982-83 and just under £100m in 1983-84, on top of the cuts announced in last year's White Paper.

DES plans revolutionary new body

The Department of Education and Science is planning to establish a national body for polytechnics and colleges which will effectively end local authority control and introduce a regime of direct funding of advanced further education.

This plan, which is a more radical departure from past practice than Mr Anthony Crosland's blunderbuss of 1965 and can really be compared only to the creation of the University Grants Committee in 1919, will be announced as stage two of the DES's response to the recent Select Committee report.

The plan has been devised by Mr Stephen Jones, an assistant secretary at the DES, and approved by ministers. It has already been cleared by the DES and is now being discussed with other departments can comment. However, the local authorities and other outside interests have so far been kept in the dark.

There are likely to be three crucial differences between this plan and the national body proposed by the Oakes committee three years ago.

- Local authorities will have only a minority rather than a majority stake in the membership of the new body.
- Money will be distributed

Local authorities kept in the dark

directly to colleges and polytechnics, either on the approximate pattern of the University Grants Committee or more likely, by the DES on the advice of the new body.

The new body will oversee higher education institutions not covered by the DES's response to the recent Select Committee report.

However, the main decision, to cut the Gordian knot of local authority control of non-university higher education, has already been taken and seems irrevocable. Legislation to establish the new body will probably be introduced in the autumn.

The DES plan will be vigorously opposed by the local authorities, especially the Association of Metropolitan Authorities. It will argue that the main motives of the Government are to impose even tighter financial control on spending in polytechnics and colleges and to open the way to even more thorough rationalization of courses.

The National Association of Teachers in Further and Higher Education, of which the majority of polytechnic and college lecturers are members, will also be unhappy with the plan. Both Nafhe and the local authorities support the creation of a national body, but both prefer to stick to the Oakes pattern.

Officials of the local authority associations have felt for some weeks that a radical change of DES's new initiative. Finally, the DES's new initiative, the creation of a national body, has led to a decisive tilt between national and local government in favour of the former.

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White paper predicts more cuts

by Peter David

A dramatic downward spiral of spending on higher education up to 1984 is forecast in confidential plans for the next public expenditure White Paper, due for publication in March.

The plans show that the Advanced Further Education pool, which in the current year was fixed at £375m (November 1979 prices) will plummet to £228m by 1983-84.

Nearly all higher education spending by local education authorities is financed through the AFE pool, and the new projections assume a rapid 17 per cent fall in the number of lecturers employed—probably through large-scale redundancies.

The gloomy predictions are contained in a briefing document prepared by the Department of Education and Science for a meeting yesterday between Mr Carlisle, the education secretary, and members of the Council of Local Education Authorities.

The document reveals that the new reductions planned up to 1983-84 are smaller than others under earlier consideration by the Government. But it adds: "Even these reductions are fairly substantial. They imply a further 5 per cent decline in net expenditure on AFE over two years beyond the level now planned for 1981-82."

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PGCE freeze threatened

by Patricia Santinelli

A plan to save the ailing BEd degree by freezing recruitment to the more popular postgraduate certificate of education has been proposed by the Department of Education and Science.

A confidential paper sent to the Advisory Committee for the Supply and Education of Teachers indicates that if patterns of intake for both qualifications remain at 1980 levels, the number of initial teacher training places would decline from the planned figure of 41,000 (including 5,000 in university departments) to around 28,500 in 1983-84.

If however changes were made in the plan, the DES/PGCE balance, the numbers would drop initially to only 32,000 for the same period and rise after that to reach just under 38,000 in 1988-89.

ACSET, which is to meet in the middle of next month, has been considering imposing a limit on PGCE recruitment. Its main concern is whether the PGCE provides appropriate training for the whole teaching profession—a matter which has to be considered in view of low recruitment to the BEd—and worry that if the PGCE surplus continued a greater number of teachers would be entering the market.

According to DES projections, training output for both qualifications based on constant levels would be 38,000 in 1980, 32,000 in 1983-84 and 38,000 in 1988-89. But if BEd recruitment is encouraged to recover training output for both qualifications would go from 38,000 in 1980 to 32,000 in 1983-84 and 38,000 in 1988-89.

One answer might be to develop a central testing unit.

Informal talks between the DES and the Select Committee have revealed the difficulties of model testing. The Treasury model for example although available since 1973 to three universities, is so big that few tests can be run.

The Select Committee is backing modelling to aid its work in monitoring the Government's people policy. The Treasury model is the first of a series of models developed in 1930s.

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North American News

Baltimore 'astronomy capital' Chemistry department boils over at Wisconsin



The Association of Universities

The space telescope has a lens 2.4 metres wide. That is less than half the diameter of the largest ground-based instrument, the Mount Palomar observatory in California, but because it will be

The telescope will be lifted into orbit by the manned space shuttle and left there to function automatically. Every two or three years the shuttle will revisit the observatory so that astronomical can service its instruments, and once every five years the whole thing will be returned to earth for major refurbishment. Its total lifetime should be 20 years or more.

The shuttle's maiden flight is now

Another reason why the dispute is so visible is that the University of Wisconsin has been amazingly conscientious about keeping outsiders informed about its private agonies. The Madison press office

Dr. Bluedel's continual criticism of his colleagues' courses, and particularly his attack on a graduate examination in front of the students who took it, outraged the chemistry faculty. According to the university news office, Dr. Bluedel's alleged "breaches of academic etiquette" included bringing a bullhorn to a faculty meeting and using, or abusing, departmental mailings and duplicating privileges to mount a personal letter-writing campaign. The department responded by making at least one abortive attempt to censor his mail and other communications.

Mrs Rumbold warned the polytechnics and colleges not to be seduced by the new DES plan. At the end of the day they could always get most of what they wanted from local government by negotiation and persuasion and in any case would always be underwritten financially by their authorities.



Universities have gone off the filler steak while the piggy banks and colleges have been in the scrap and, Mr. Nelson, director of Ealing College of Education, and chairman of the standing conference, approvingly told the conference dinner.

He criticized the "fissure" between the polytechnic and the college principal, and had weakened the non-university sector in the past. They had failed to present a united coherent voice.

Mr. Merritt appealed
introspection in the future
greater cooperation between
technics and colleges.

conspicuous. The fact that the majority would be at home with higher education and the traditions it represents is not surprising. He also criticized the local authorities for not doing enough to ensure that the people of the island had no concurrent recognition of the need to resolve what was, in effect, the exercise of power without the means to make it effective. He also criticized the government for not controlling expenditures at the local level, the desire to "build a relative complement" to the provision of local authorities was in complete contrast with the financial support inferior to that of the central government. He also criticized the management and planning of the island, the need to fight the poor quality of provision in the case of the binary health system, not he argued that the local authorities were not doing enough to improve their position, said he was against them, said he was

A black and white photograph of a large, historic church building with a prominent steeple, surrounded by trees and a lawn. The church has a classical facade with columns and a pediment. The steeple is tall and features a clock face. The building is set back from the foreground by a grassy area and is flanked by large, mature trees. The overall scene is peaceful and well-maintained.

Johns Hopkins University : site of the new Institute

Animal Care Centre. He was threatened with knee-capping after a public hearing on a decision by the City Council of Chilliwack (a town near Vancouver) to turn over unclaimed dogs from its pound for university research.

One person who has stood up is John Gregg, coordinator of the UBC

Although the Royal Canadian Mounted Police is investigating the campaign, they have not yet been able to track down any of the individuals responsible for intimidating university officials and researchers. A radical group called the Animal Defence, and Anti-Vivisection League has been organizing protests against UBC, but it is not clear whether its members have also been responsible for the illegal activities.

"Some of the hate mail directed at the people doing animal research is pretty vicious stuff", said a university official. "Posters inciting violence have been put up around Vancouver, and their families and

sense that the university is finding it much more difficult to procure dogs for use in research, and some experiments have been affected. And the university public relations office frequently receives calls from cat and dog owners whose pets have disappeared and who believe the university is responsible.

The university maintains that it sticks to rigid standards to ensure humane treatment of animals in experiments. Until recently, a

Spokesman said, anyone was welcome to come and inspect the facilities for themselves, but this open-door policy has been curtailed as a security precaution against possible sabotage by the antivivisection extremists.

The federal government has approved new rules for experiments involving human subjects, which apparently meet the objections of social scientists who complained bitterly about the first draft of the regulations.

The final version of the regulations was signed by the outgoing secretary of health and human services, Patricia Harris, shortly before she left office, according to *The New York Times*. The Reagan transition team approved them and they will soon be published, officials said.

The first draft, published in 1979, alarmed social scientists because the proposed rules would have made them comply with the same review procedures as medical researchers. A sociologist observing public behaviour on the street, or even a historian seeking to interview a former president, would have had to seek approval from his

university's "institutional review board" just like a pharmacologist who wanted to test a new drug on patients.

funded research on human subjects, has taken their objections into account. The final version of the rules exempts five broad categories of research from review. They include educational research, surveys and interviews (unless there is potential invasion of privacy),

potential invasion of privacy; observations of public behaviour and research using existing data and documents. Interviews with public officials and politicians are specifically exempted from review.

For several years any institution receiving biomedical research funds from the federal government has been required to set up a review board, including lay and community representatives.

The American Association of University Professors has asked President Reagan to spend more federal funds on direct assistance to colleges and universities. That is the most important point in a

12-page letter from the AAUP to the new Administration, setting out a role for the federal government in higher education during the 1980s.

administration's determination to cut no military federal expenditure. AAPU general secretary Irving Spitzberg said he thought the Government would realize that it was essential to end the system that has existed for the past 20 years, under which "the economy of American higher education has been directly tied to enrollments." Otherwise, Dr. Spitzberg said, the financial and academic health of

colleges and universities could deteriorate very rapidly if student numbers decline over the coming decade, as some experts predict.

At present most federal aid to higher education is related directly

to enrolment, in the form of student loans and grants. To suggest change in emphasis is not to recommend that the government withdraw its student financial assistance programmes, the AAUP told President Reagan. Instead, it means that the student assistance program must

the current assistance programmes must now be supplemented by institutional assistance programmes which are related directly to improving or maintaining the quality of teaching and research and which do not depend on whether enrolments are increasing or decreasing."

Another idea put forward in the letter is federal aid to colleges and universities on a regional basis.

Frank Press, the geophysicist who served as presidential science adviser throughout the Carter administration, has, as expected, been selected president of the National Academy of Sciences. He will succeed Philip Haudler, whose second six-year term expires this

Dr Press, who is 55, is best known for his work on earthquake prediction. He has been a member of the NAS, a giant version of Britain's Royal Society, since 1958, and was chairman of the Department of Earth and Planetary

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(continued)

الحمد لله

Overseas News

Censorship changes hit new delays

Proposals for new censorship laws in Poland, which would remove academic publishing from the censors' control, have run into deadlock. Warsaw radio announced last week. A revision of the present law to reduce state control of the press, publishing and the stage to the minimum needs of national security were promised in the Gdansk Accords which ended the summer's industrial unrest.

The first draft of such legislation was promised by November 30, afterwards extended to January 10 due to "technical difficulties". Now this deadline, too, has expired, at a moment when party hardliners are pressing for a revision of the more controversial terms of the Accords.

The difficulty centres on whether the censorship should be accountable to the Council of Ministers (the Government) as favoured by Minister of Justice Biala, or to Parliament as a whole—the opinion of a public drafting committee chaired by Professor Klomens Szaniawski, a leading Polish philosopher. In effect, however, the minister's proposals amount to a preservation of the status quo—which Professor Szaniawski's committee will not accept. Public discussion has been promised, but it is not clear what form this is to take.

During the last few months, there have been major relaxations. Unpublished by Czeslaw Milosz is perhaps a special case—the 1980 Nobel prize for literature turned him over from a blacklisted author to a published one. So only from the underground publishing house NOWA, a national figure whose work during a recent visit to London, freedom of publishing depends not only on the written regulations but also on the prevailing social climate. His fear, he said, was that even under relaxed censorship regulations some authors might still be blacklisted and self-censorship and vicarious self-censorship from the public.

However, the underground press, and in particular NOWA, an acronym for Niezależna Oficyna Wydawnicza—Independent Publishing House, still has a role to play. As its founder and director, Miroslaw Cholewicki, stated during a recent visit to London, freedom of publishing depends not only on the written regulations but also on the prevailing social climate. His fear, he said, was that even under relaxed censorship regulations some authors might still be blacklisted and self-censorship and vicarious self-censorship from the public.

During the past four years, NOWA's own work in filling the information gap has been considerable, leading from underground newspapers (its monthly *Robotnik* is the most widely read) to the number of its books, a print run of 60,000, to academic works. These are produced in cooperation with the Society for Academic Courses (the "Flying University").



Czeslaw Milosz—a special case

NOWA, said Mr Cholewicki, produces a series of pamphlets of 30 to 40 pages, giving the text of SAC lectures and selling for some 15 to 20 zloty (around 30p), with a print run of 20,000 copies. The SAC, like NOWA, is still technically speaking outside the law. Nevertheless, the lecture pamphlets are rapidly distributed throughout every academic centre in the country. So too are the more expensive SAC texts—books of 100 to 200 pages; these include translations of philosophical and sociological works (Bertrand Russell, George Orwell, Thomas Masaryk) and transcripts from lectures and discussions between leading SAC members. The SAC is also planning a series of texts for school teachers, which they can use in planning their regular lessons on history, literature and similar subjects where the state syllabus is subject to ideological constraints. These, however, said Mr Cholewicki, are still in the preparation stage.

Publishing outside the law has not, of course, been easy. NOWA has had to wage a running battle with the police, and its printers use various ploys to evade surveillance on their way to the "printing works" or storage depot. Retailers, it was found early on, should never stock more than 15 to 20 copies at a time, making police raids virtually unproductive. Nevertheless, Mr Cholewicki, stated during a recent visit to London, freedom of publishing depends not only on the written regulations but also on the prevailing social climate. His fear, he said, was that even under relaxed censorship regulations some authors might still be blacklisted and self-censorship and vicarious self-censorship from the public.

Mr Cholewicki's long-term hope, NOWA is its voluntary self-liquidation—as soon as new legislation and a social climate firmly committed to press and academic freedom make its work redundant. The latest setbacks to the censorship bill, however, suggest that NOWA will still have a job to do for some time.

Colleges to choose students

China's college enrolment system has improved since 1977, but there are still faults which hinder the selection of the best students and prevent improvements in quality, according to leading university presidents.

Yang Qiu, chairman of the Shanghai College Entrance Examination Committee and vice-president of the Youth University said a recent meeting of college presidents at the Youth University had to rely on the decisions of government civil servants with little knowledge of academic affairs.

In future, he said, universities and colleges themselves should be allowed to select qualified students. He likened the present college entrance examination in China to the ancient Imperial examination, when candidates throughout the country gathered in the capital for selection, leaving local authorities no say.

A better system would be to let

dividual colleges to have the right to select candidates considered unsuitable for certain specialities. If they had passed the national qualifying exam.

Lu Poshan, president of the East China Normal University, suggested that students who apply for a second examination, if necessary, should be given a special examination. He suggested that universities and colleges should be allowed to select qualified students. He likened the present college entrance examination in China to the ancient Imperial examination, when candidates throughout the country gathered in the capital for selection, leaving local authorities no say.

A better system would be to let

Student unrest disrupts the provinces

from Guy Neave

PARIS

In the remaining months before the presidential elections unrest continues to plague French universities. Last week saw a general stoppage throughout the country by assistants and junior lecturers in support of the demand that part time staff should be given permanent posts.

At the universities at Besançon, Toulouse and Dijon unrest has been endemic over the past month. Protest against the cuts in graduate courses have continued to inspire student demonstrators though there has been a notable change in tactics. Students are now seeking by various means—including an attempt to occupy the local radio station at Toulouse—to win over the local populace rather than demonstrating on their own.

At Besançon teaching came to a

halt on January 19 as students occupied the central area of the town. At Toulouse the situation is confused. As the university of Toulouse 2—specializing in sciences—returned to work its colleagues in Toulouse 3 took over the administration office and organized an "open day" in an effort to appeal to the local inhabitants. At Dijon where the last month has seen regular student processions throughout the city, students took to sweeping the streets in a gesture to draw attention to the effects of the cuts. However, even in Dijon the student body appears split. The social scientists are holding out but students in humanities and law are attending lectures again.

The latest round of student unrest is strikingly different from its predecessors. The running theme is longer made in Paris. Initiatives have passed to the provinces. Equally

significant is the lukewarm attitude of official student unions towards present action.

Furthermore there is considerable suspicion among student activists towards their union colleagues. Others are struck by the fact that the initiative appears to have passed into the hands of ad hoc groups, few of which are identified with any political party.

The care with which student unions have distanced themselves from some of the more spectacular actions—blinking a national highway at Toulouse for instance—has been attributed to the run up to the presidential elections. Left-wing student unions are unwilling to be identified with unrest that might prejudice the electoral chances of the parties they are affiliated to. The other side of the coin is that many students feel unwilling to lend themselves to party political manoeuvrings.

Admissions to be reformed

from Orjan Bjorkhem

MELBOURNE

Sweden is to change its complicated university admissions system in the wake of widespread accusations that it favours older students against intellectually gifted school leavers.

The existing system, introduced in the 1970s to entice more working class students, was designed to reduce the importance attached to school examination results and give more weight to natural ability and work experience.

Work experience was widely defined, with time spent as a housewife, for example, counting as much as employment. According to its critics, the new system tended to favour age over ability.

Under the system, the highest score a university applicant could gain through school experience alone is five points. The five points, however, said Mr Cholewicki, are still in the preparation stage. Publishing outside the law has not, of course, been easy. NOWA has had to wage a running battle with the police, and its printers use various ploys to evade surveillance on their way to the "printing works" or storage depot. Retailers, it was found early on, should never stock more than 15 to 20 copies at a time, making police raids virtually unproductive. Nevertheless, Mr Cholewicki, stated during a recent visit to London, freedom of publishing depends not only on the written regulations but also on the prevailing social climate. His fear, he said, was that even under relaxed censorship regulations some authors might still be blacklisted and self-censorship and vicarious self-censorship from the public.

Mr Cholewicki's long-term hope, NOWA is its voluntary self-liquidation—as soon as new legislation and a social climate firmly committed to press and academic freedom make its work redundant. The latest setbacks to the censorship bill, however, suggest that NOWA will still have a job to do for some time.

Environmentalists 'being subjected to suppression'

from Geoff Maslen

MELBOURNE

Academicians working in the field of environmental research and teaching are being subjected to attempts to suppress their findings, it is claimed.

Dr Brian Martin, a research assistant in the department of applied mathematics at the Australian National University in Canberra, said that powerful groups outside the academic community, particularly corporations and government bodies, have strong influence on teaching and research organisations, and on the content of knowledge formulated and verified in Academics.

In a paper prepared for the magazine *The Ecologist*, Dr Martin documents and discusses 10 instances where the work of senior and junior academics has been subject to various attempts at suppression. Most of the attempts were successful either by the non-renewal of the academics' tenure, by forcing them from their jobs or by the refusal of grants bodies to allocate money to their research projects.

Dr Martin claims the publicised cases are "far from the total". It is highly likely that outright attempts at termination of employment are greatly outnumbered by non-renewals of non-tenured positions, by failures to hire and promote, and by pressures leading to non-publication of particular types of environmental research and teaching.

In the cases he quotes universities in Australia and New Zealand are accused of taking action against environmental academics. In one instance a research officer at an institute of medical and veterinary science was outspoken on environmental issues, especially the impacts of environmental chemicals. The researcher started his own work on testing substances for mutagenic properties and prepared a report on the hazards of ethylene oxide as a sterilant, which he gave to workers using the substance. The institute received letters of complaint from chemical companies. Plans were announced to close the environmental mutagenesis testing unit and to transfer the researcher to another department with a \$410,000 cut in salary. The director of the

institute wrote rebuking the researcher for releasing the report without approval. In another instance, a senior lecturer in the Australian under-graduate course in environmental and natural resources law. He was later told his application for tenure would be denied.

In a New Zealand university, a senior lecturer in biochemistry, who was a member of the board of power, nuclear weapons and the use of certain herbicides. Disturbed proceedings were initiated by the university after the vice-chancellor had received a letter from the board of the lecturer's department.

Dr Martin argues that purely academic or scientific judgments are almost always insufficient as reasons for the efforts at suppression. He wants far more going on to the models. Consumers must be able to make post mortems, the committee is likely to suggest.

A number of factors combined to force the SSC's hand to "clear what is in its path" a political and financial agenda. The SSC developed their models on SSC funds at different times and in different directions. There has been no review of these developments. Secondly, the technology and software of modelling has advanced in leaps. Thirdly, stockbrokers and commercial groups have burst in on the field; it is appropriate for the SSC now to consider the relation between public and private funding in the field. Fourthly, there are doubts about the accuracy of the modelling groups are compared with rivals in America, France, Germany and Japan.

Kenya may get second university

A working party has been appointed to prepare recommendations for a second university in Kenya to supplement the facilities of Nairobi University.

President Daniel Arap Moi, who has appointed a working party headed by Dr Colin Mbatia, a former president of the Kenya Teachers' Union, and a former vice-chancellor of the University of Nairobi, to prepare recommendations for a second university in Kenya to supplement the facilities of Nairobi University.

Graduates face jobs shortages

Between 6,000 and 8,000 university and college graduates will fail to find suitable employment each year during the 1980s unless drastic steps are taken to match job opportunities with higher educational training.

This emerges from a report submitted to the Israeli cabinet by a team headed by education minister Ze'evulun Hammer, analysing job prospects for graduates. On the basis of this report the government is expected to appoint a committee to investigate the problem in detail.

The Hammer committee report indicates that the universities and colleges are producing more graduates than the labour market can absorb. The report predicts that 6,000 to 8,000 graduates will be left without suitable work.

The report foresees that Israel's universities will produce 9,000 graduates annually, the total number of jobs available in the economy is only 8,000. The report predicts that 6,000 to 8,000 graduates will be left without suitable work.

It was George Bernard Shaw who made the notorious remark that if all the economists were laid end to end they would not reach a conclusion; Ionesco said you can only predict things after they have happened. Nevertheless, economics matters; and perhaps none more so than the branch of macro-economics forecasting used as the backbone to so many vital policy decisions.

There are about a dozen important economic modelling groups in Britain at present, varying in complexity and approach. Stockbrokers Phillips and Drew use some 200 equations in their model, the Cambridge Growth Model (CGM) group use 3,000. The London Business School (LBS) operates a fundamental monetarist model, the National Institute (NIESR) a Keynesian model. Excluding Government and city groups, there are four major public groups, known in the language of the Social Science Research Council (SSRC) as the "Gang of Four", because they began life on SSRC funds and have been consistently funded ever since.

The Gang of Four includes the NIESR, the London Business School, the Cambridge Growth Model group and the Cambridge Economic Policy Group (CEPG). The bulk of their money comes from the SSRC—accounting for 11 per cent (£0.5m) of its total research grant funds, some 3 per cent of its total funds.

The SSRC last summer set up a special committee under its chairman, Michael Posner, himself an authority in the field, to review its commitments to economic modelling research. The committee is looking at the whole variety of financial available to the groups, and at criteria to judge grant applications from existing members of the SSRC club as well as new entrants. A first draft should be ready in the spring, a fuller report, probably with specific recommendations on funding after 1983 by the autumn.

These deliberations have been given extra import by the interest shown in modelling and forecasting by the Select Committee on the Treasury headed by Edward du Cann. Members of both committees have been holding informal discussions, and it is apparent that the Select Committee in its report later this year will call for a diversity of models to be maintained, and for more research by university and research institutions on existing models. One problem is that the Treasury model, although available for use, is prohibitively expensive to run through computers. The Select Committee also wants far more going on to the models. Consumers must be able to make post mortems, the committee is likely to suggest.

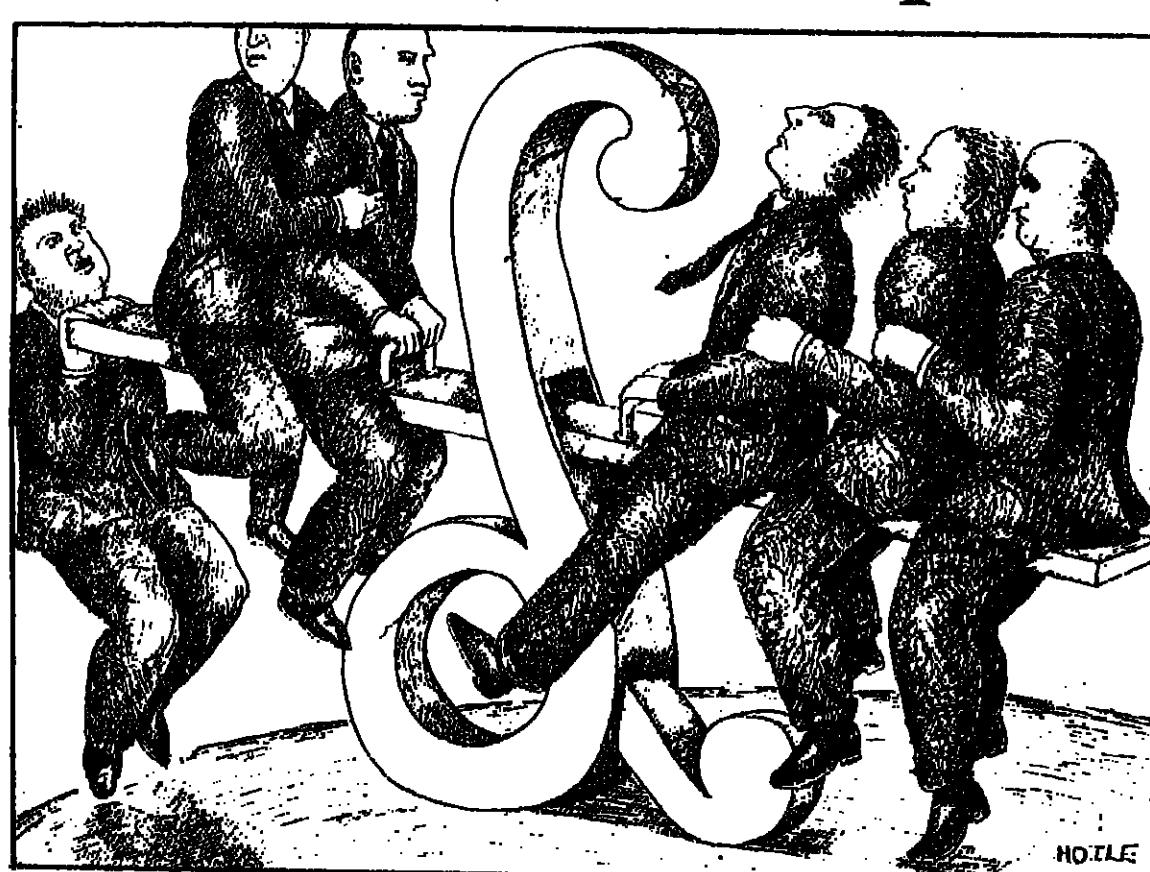
A number of factors combined to force the SSC's hand to "clear what is in its path" a political and financial agenda. The SSC developed their models on SSC funds at different times and in different directions. There has been no review of these developments. Secondly, the technology and software of modelling has advanced in leaps. Thirdly, stockbrokers and commercial groups have burst in on the field; it is appropriate for the SSC now to consider the relation between public and private funding in the field. Fourthly, there are doubts about the accuracy of the modelling groups are compared with rivals in America, France, Germany and Japan.

While many economists, including Posner, who has visited leading groups, subscribe to the view that modelling in Britain is as advanced as anywhere in the world, most believe it falls down on the application side. Paul Ormerod, in *Economic Modelling* says Britain is underdeveloped, even in the game was first developed, but in the 1930s when Keynes decided to take on the Treasury, he suggested a clutch of reasons: the relative lack of funds, which affects the forecasting and modelling, grew up by side not together; and the "circus atmosphere" where too much time is spent advising, little analysing. He notes even the highly sophisticated Treasury model was not fully computerized until 1970.

The main reason for the review emerged from meetings of the SSRC economics committee, when members found themselves without criteria to judge grant applications and to decide which to fund. The committee members looked at the models, they found themselves puzzled by them all to pieces. But they could hardly refuse a renewal, because destroying a leading member of the Gang that had been

Paul Flather looks at the state of economic research

Knocking on the door of the public purse keeper



backed for years. And what about new entrants in the end renewals were invariably accepted. One example of the committee's problem is shown by their funding of the NIESR. In 1978 the committee cut 10 per cent off the NIESR programme grant and refused for the first time a £35,000 development grant to be used to bridge existing and new projects. But in 1980 it gave the NIESR its programme grant application in full, ignoring the earlier penalty.

The review committee was set up with representatives from most major interest groups, such as the Government, the Bank of England, the Treasury, the City and higher education. As Mr Posner says: "We could not carry on in such a piecemeal way. All the ingredients are now in the pot."

There are two ways to look at model construction: a team can start with individual building blocks and construct a model; or begin with some *a priori* grand design and search for the right blocks. The latter is the way, for example, that the CEPG under Wayne Goddard operates as a collection of facts in search of a theory, but Patrick Minford's group at Liverpool University, a new entrant to the SSRC clubhouse, operates as a theory and searches for the facts. The committee will need to look at both sides of model building—the method of construction, and the results and use of the final model.

First the construction and then the use of the final model. The wholly academic criteria macro-economists ought to measure. The SSC, the keeper of the public purse-strings, wants to fund research at the "frontiers of knowledge". This might work against the NIESR, established, worthy, unrivalled in the 1950s and 1960s, but described as "archaic" by the CEPG. In favour of the CEPG, described as often wrong but the most exciting new force of the 1970s. Secondly, models must attempt to "explain" how the economy really works. Here, the CEPG is clearly superior, having proven forecasts on the team such as Alan Budd at the LBS, or Frank Blackaby at NIESR. Secondly, the CEPG does less well with a highly confusing model.

Then the results. First, groups must deliver the goods it promises. The CEPG has been having proven forecasts on the team such as Alan Budd at the LBS, or Frank Blackaby at NIESR. Secondly, the CEPG does less well with a highly confusing model.

made overtures to take over the CGM, but the team rather valued complete independence higher than secure funds for acting like a support service.

Thirdly, there is the balance of funding a team receives from public and commercial sources. Thus the LBS receives £5,000 from each of 12 important subscribers; the CGM receives 40 per cent of total funds from commercial sources; the NIESR receives nothing. The independence of a modelling team is valued highly by the SSRC—the universal scrutiny and testing. A commercial model, for example Phillips and Drew, can have an excellent track record, but it is hidden and so suspect; some commercial modellers are suspected of simply reconstructing existing models. On the other hand the SSRC wants to encourage the market, the more private capital in the field the better. It is also true that modellers who rely only on commercial funds are in a sense being tested in the market place, surviving on proven results. The branch are developing an exciting joint project known as Modulo.

The fourth, most important test, is accuracy. There is general agreement that the level of testing of the modelling teams is abysmally low. The Times provides a very useful

regular comparison in its Business News pages of how the modellers square to reality. The NIESR with impeccable timing print an article on testing including an analysis of its own errors in next month's quarterly bulletin. But as Dr Gregory Bray, Labour MP and member of the Treasury Select Committee, says: "We must develop proper standards in quality control." Dr Bray believes one major problem is the slow introduction of sophisticated software in Britain. Modelling no longer requires huge backup teams, he says; a model can be devised as a PhD thesis in America.

A final test somewhat played down by Mr Posner, who probably wrote the last really significant comparison of the models in the early 1970s, is by reference to the overall balance of work in the whole field. It is suggested important decisions to cut or withdraw grants cannot be made on academic grounds alone. It is an important Keynesian or monetarist group die, the balance of debate could be upset. This game is fraught with difficulties and politics. A cynic therefore might suggest that support for Patrick Minford, currently uninvolved in an important debate in the pages of the *New Statesman*, may have come from the SSRC to extend the balance on the monetarist side of the fence. To undermine the NIESR in any way could seriously weaken the Keynesian troops.

What will the committee recommend? Just to list all or most of the above criteria will not be enough—it must be weighted accordingly and flushed out with product specification: what part does play play, how many equations should a model have, what time scale is appropriate? The committee must come out in October with two sets of clear rules or to decide if existing groups should continue to receive funds and on how now applicants can prove themselves. All talk of cutting out this or that group is clearly premature. But simply having a long record will not be enough to secure continued membership of the SSRC club. The nature of the products solutions such as handing out smaller grants to more groups. So there must be a stiff entry test, then the promise of secure funding are in a sense being tested in the market place, surviving on proven results. The branch are developing an exciting joint project known as Modulo.

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The recent violent street battles in the West Bank in which Israeli troops shot at and wounded unarmed Palestinian student demonstrators received considerable attention in the world's press. Most of this attention has been focused on the student protests themselves and the events that triggered them, in particular the closure by the Israeli occupation authorities for a week in mid-November of Bir Zeit University for trying to hold a "Palestinian Week", and the deportation of two West Bank mayors on December 5.

The West Bank universities have been looked at mainly in their role as "hotbeds" of student dissent and revolution. Little attention has been paid to them in the wider context of West Bank society, and even less to their role in the higher education of the Palestinians as a whole.

The West Bank contains some 688,000 (17.2 per cent) of the total worldwide Palestinian population of about four million, according to the demographer Janis Abu-Lughod. Another 404,000 (10.1 per cent) live in Gaza; in other words the occupied territories contain rather more than a quarter of all Palestinians. Another 623,000 (15.6 per cent) live in Israel, and have Israeli nationality.

The rest are scattered throughout the Arab world and beyond, 1,000,000 (25 per cent) in Jordan, 300,000 (8.25 per cent) in Lebanon, 210,000 (5.25 per cent) in Syria, 250,000 (6.25 per cent) in Kuwait, 180,000 (4.5 per cent) in Saudi Arabia, 155,000 (3.9 per cent) in other Arab states, and 160,000 (4 per cent) elsewhere, including Europe and North America.

Increasingly, Palestinian educationists and academics have been trying to get to grips with the problems of higher education of this fragmented population, and to create a higher education system to cater for the Palestinians in different areas. This is part of the Palestinians' growing efforts to plan and manage their own affairs.

Although the Western media tends to be interested only in the military aspects of the PLO, the organization has in fact developed a complex administrative structure since its creation in 1964 and has departments concerned with many aspects of economic and social life. Many of the members of the 15-man PLO executive committee head departments such as information and culture, social affairs, the Palestine National Fund, and higher education.

Higher education might seem the least of the Palestinians' worries, particularly as it is one field in which they have achieved outstanding success since 1948. The Palestinian manpower expert Anthony Zuhair estimates that in 1975, about 70,000 of the 62,000-odd Palestinian labour force were either graduates or high-level manpower.

Palestinians constituted 10 per cent of Arab high level manpower, a figure out of all proportion to their relatively small numbers. A major factor in the Palestinians' educational success is their strong motivation after the mass exodus from their homeland. Parents are ambitious for their children, and it is a common sight to see boys with their noses buried in books peering the perimeter of refugee camps. In the evenings, particularly before exams, they try to revise in peace away from the cramped conditions of their families.

It is also common for Palestinians working for example in the Arab oil states to make considerable sacrifices to see their brothers or nephews through college.

Another factor that helped the Palestinians gain a higher education was the willingness of Arab universities, particularly in Egypt, to admit Palestinians on a fee or no fee or no-fee basis.

In a sense, the Palestinians were "lucky" that their uprooting coincided with the beginning of rapid economic growth in the Arab world, particularly in those states whose oil industries started to bring in a flow of wealth. The Palestinians played a major role in developing Arab economies, and providing many of the necessary teachers, administrators, and shop staff.

But the Palestinian track record since the year 50 is why are Palestinian universities suddenly new

Showdown for the West Bank's fledgling system

Susannah Tarbush looks at the problems facing the Palestinians' universities in occupied territory

The higher education of Palestinians with concern? One reason is that things in the Arab world are rapidly changing and the employment prospects for Palestinians look less rosy than they did a few years ago. The oil states see investment in developing their own manpower resources as one of their top priorities, and have channelled huge sums into school and university education. They are understandably keen to fill administrative positions in national institutions with their own nationals. Many of the lucrative contracts awarded to foreign companies include a programme to train nationals.

The Bahraini newspapers frequently carry the latest score of the "Bahrainization" programme among the personnel at the Arab Shipbuilding and Repair Yard, or proudly record the promotion of Bahrainis to managerial positions in banking. Saudi Arabia's recently announced new five-year plans lay great emphasis on increasing the Saudi workforce by 146,000 while limiting the increase in the expatriate workforce to a maximum of 9,000. Of course the effects of the intensive educational programmes on employment patterns will not appear overnight, but within a few years the subtle shifts will have grown into a pronounced trend.

As employment prospects shrink, the number of Palestinian school leavers will rocket in the next few years. The feasibility study for the world's highest birthrates, partly as a survival mechanism. Janis Abu-Lughod calculates that of the total 4,000,000 Palestinians, between 1,900,000 and 1,976,000 are less than 15 years old. The feasibility study for the world's highest birthrates, partly as a survival mechanism. Janis Abu-Lughod calculates that of the total 4,000,000 Palestinians, between 1,900,000 and 1,976,000 are less than 15 years old. The feasibility study for the world's highest birthrates, partly as a survival mechanism. Janis Abu-Lughod calculates that of the total 4,000,000 Palestinians, between 1,900,000 and 1,976,000 are less than 15 years old.

While the number of Palestinians wanting a university education increases, Arab universities will be under intensified pressure from their countries' own swelling populations. Not surprisingly, they will give priority to their own nationals, and even when Palestinians do manage to gain acceptance, their choice of subject is likely to be limited by competition, and it will be particularly hard to study medicine and engineering, subjects at which Palestinians have traditionally excelled. Palestinian already find it harder to get access to higher education than the superior impression of their educational success rate would suggest, with refugees camp dwellers and girls experiencing particular difficulty.

One concern even Palestinian higher educationists do not just about the increasing number of students, but the difficulty of raising administrative and teaching employment prospects. However, the content of education is also a source of growing dissatisfaction. Dr. Salim Abu-Isaiah, who headed the Palestine Open University feasibility study, says: "The Palestinians in higher education have been educated in accordance with a curriculum which is totally alien to them, absolutely no national, Islamic, or Arab content has been designed by the national authorities of various countries. They were designed, if they



Israelis on guard outside Bethlehem University.

were designed at all, in the light of the needs of those societies. It is significant that Abu-Lughod should use the words "if they were designed at all", for a growing body of criticism within the Arab world says that despite the funds being pumped into Arab universities, they are failing to define, let alone meet, the economic and cultural needs of the area.

Abu-Lughod complains that "The curriculum in all these countries have nothing to do with the identity of the Palestinian, with his heritage, with his future aspirations. They are not designed to serve the needs of Palestinian society, they are not informed by Palestinian heritage and culture."

This brings us to the crux not just of the question of the Palestinian higher education, but of their efforts as a people trying to assert their rights to self-determination as recognized in the series of resolutions adopted by the United Nations General Assembly in the past 11 years.

Now are the needs of "Palestinian society" to be defined? Are they the needs of Palestinian society as it exists now, the needs of future Palestinian society that will hopefully inhabit a Palestinian state, or both? What type of curriculum will help meet the Palestinian aspirations and his society's needs, and what type of educational institutions will be most effective? Seen in the context of Palestinian higher education as a whole, the West Bank universities are not just centres of violent student opposition to the Israeli occupation. They represent a vital experiment in Palestinian higher education, as the first universities being run by Palestinians for Palestinians.

It is not always realized quite how new this experiment is. Bir Zeit, which started as a small private school in 1924, evolved first into a secondary school and then into a college, adding a freshmen class in 1953 and a sophomore class in 1961. As a junior college, it prepared students to complete their studies in the Arab world or beyond, often at the American University of Beirut with which it had a long association. It was only after the occupation effectively sealed the West Bank off from the Arab world in 1967 that pressure mounted to upgrade Bir Zeit to full university status. Students who left the West Bank in search of higher education had great difficulties on trying to return home, with lengthy interrogations and often harassment from the occupation authorities, particularly if they had been studying in Beirut.

Having lived in Beirut, the centre of the Palestinian resistance movement, they were often regarded as belonging to illegal organizations and could be imprisoned. In addition, students abroad risked losing their rights of residence in the West Bank.

Faced with such pressures, many students were returning to the West Bank, and in an effort to stem the flow of youth from the area, Bir Zeit added a third (junior) class in 1974-75, and a fourth (senior) class in 1976-77. Its first graduation ceremony was held on July 11, 1976. Two other universities were established: Bethlehem University,

which is owned by the Vatican in 1973 and Al-Najah National University in 1977. Al-Najah was until then a teachers' training college. From these beginnings, the university system has grown rapidly, and both Bir Zeit and Al-Najah have ambitious development programmes. Bir Zeit, which had a total of 300 students in 1977-78, aims to have 4,500 in 1986-87. Al-Najah plans even more rapid growth, from 1,409 students in 1978-79 to 7,225 by 1986-87 and 9,220 by 1989-90. Bethlehem's numbers are likely to remain at around 1,000.

The growth of a sizable student body in the West Bank vigorously opposing the occupation and its attempts to impose the Camp David agreements clearly alarms the Israelis, as shown by the recent harsh action against student demonstrators. The recent moves against the universities are only the latest of a series of problems experienced by the universities as a result of operating under occupation.

The problems include the "invasion" of campuses by the military, closures (Bir Zeit was closed down for months in 1979), the refusal of the military authorities to allow the entry of certain books and periodicals, despite the fact that they are available to students at the Hebrew University in Jerusalem, and difficulties over obtaining work permits for foreign members of faculty.

Although these problems created headaches for university administrators, they did not affect the university's basic freedom. Order No. 854 issued by the West Bank military governor in July was thus particularly ominous, as it was aimed at curbing that freedom and banning the occupation authorities to interfere to an unprecedented extent. It stipulated that universities must be licensed, implying that the licence could be withdrawn.

It also said that the names of all faculty members and students must be passed to the occupation authorities, in order to "weed out" those who had been committed for security offences, or held for questioning, and as anybody who has visited the West Bank knows, almost every Palestinian West Bank faculty has members who fall into this category. All courses of study are subject to the approval of the military governor—again, an entirely new kind of restriction. University students say that in recent weeks their textbooks have been seized and scrutinized by the occupation authorities.

The universities have refused to comply with the new decree, which aims to "undermine the university's status as an independent, autonomous institution and its academic freedom." The statement issued by Bir Zeit said: "The statement pointed out that the decree, by amending the Jordanian law of Education and Culture of 1964, comprehended the fourth Geneva convention of 1949 which states that an occupying power does not have the right to introduce changes in the laws of the country under occupation."

Thus although the recent violence on the West Bank might have been triggered by specific events, it is part of an inescapable showdown between an increasingly defiant and

powerful student body, and an occupying power which wants to nip the fledgling West Bank university system in the bud before it can develop and gain momentum.

Operating under occupation has also caused the universities other less obvious, but potentially serious difficulties, particularly in planning. In the absence of national government and ministries of education, how are the universities to be coordinated? The universities are all private, and largely from external sources, with for example Al-Najah reportedly receiving considerable aid from oil states.

Two families' names are virtually synonymous with those of the universities, that of Nair al-Bir Zeit, and that of Al-Masri al-Najah. These families played a crucial role in founding, administering and securing the universities' financial base. When does rivalry between the universities cease to be healthy and become detrimental to the university system as a whole?

In an effort to try to coordinate the higher educational institutions which apart from the universities include teacher training and vocational colleges, the Council for Higher Education was set up in 1977, grouping mayors, representatives of the professional associations and academic institutions and West Bank personalities.

In 1979 the council invited Professor Norman Hunt of the University of Edinburgh's department of business studies to the West Bank with the brief of appraising higher education and making proposals for the rationalization and development of the three universities and other tertiary institutions. His report was highly critical of the way the university system was developing. He warned that by 1986-87, if the universities develop as planned, there would be an university places than graduates qualified to fill them, 4,300 places for between 3,000 and 3,500 students with several hundred more or more in the general secondary school examination. The university tertiary sector will have a severe shortfall of places with perhaps 3,000 places in demand of between 6,000 and 7,000.

He said the imbalance would be made worse if the West Bank High School in Gaza, which he declared itself a university, went ahead with its \$75m development plan, and if the Arab Higher Education Institute in Jerusalem also went ahead with its plans to expand its capacity to 10,000 students.

The imbalance between the university and non-university sectors is particularly serious in the West Bank context. West Bank educationists and planners want to reduce the flow of students to other parts of the West Bank, and to make the best use of their talents within the West Bank context.

If higher education continues its present course, however, it is a danger that a large number of graduates who cannot find employment will be forced to leave the area in search of work. The problem will be the same time fall to the training for the technicians, teachers, and other professionals. The question is, is it worth trying to develop the higher education system to fit those needs, similar to the challenge faced by the PLO's higher educationists to develop a system that will meet the needs of the whole Palestinian people.

If the problem on the West Bank is difficult enough, it is made even more difficult outside, with a Palestinian education system scattered in many countries and from the territory that may be lost to the whole Palestinian people.

The Palestinian Open University, a feasibility study recently completed by the United Nations Educational, Scientific and Cultural Organization (Unesco), has gone a long way towards defining the needs of the Palestinian people. It is a highly flexible, mobile, and decentralized system, designed to overcome the problem of the Palestinian geographical dispersal, and to bring order to the regional education system. These activities have by no means met with unqualified approval. Indeed there is some concern that the DES is taking too long to set up, and that its initiatives go ahead unchecked.

Moreover, there is a growing feeling that the whole concept of regional machinery is redundant because of the reduced size of the teacher education sector in the region, probably the most important aspect of the group is that it offers a vertical channel of communication between the teaching profession

Degree-level training for nurses is steadily winning acceptance from a traditionalist and often sceptical profession.

Over-rapid expansion—a temptation particularly for the public sector institutions with surplus teaching capacity and a desperate need of students in the period following the contraction of teacher education—has been scrupulously avoided.

There are now about 20 degree courses in the United Kingdom which lead to entry to the State Register. Twenty years ago there was only one.

The wisdom of a cautious approach has been vindicated by signs of a levelling off in demand from highly qualified and well-motivated students.

Numerically, the impact of graduate nurses has been small. Eight years ago the Briggs Committee on Nursing predicted that graduate entrants would be a small but increasing proportion of the profession—between 2 and 5 per cent.

In 1971 degree students made up only 0.2 per cent of general nurses beginning their training that year. By 1975 the figure had risen to 0.9 per cent in line with the expansion of courses.

But in 1979, the latest year for which figures are available, it had barely crept to 1 per cent. There were two forces behind the moves to develop degrees—one overt and the other only tacitly admitted. The formal reason is that the role of nurses in patient care is changing. More responsibilities formerly within the clinical province of doctors are being devolved, and new technologies make a greater demand on nurses.

Pragmatically, there was concern that well-qualified potential recruits were being put off by the prospect of a vocational degree which would form a starting-point for a career.

There are now two broad types of degree course, both with 3,000 hours of intellectual practice. Chronologically the first group is the sandwich degree course with a content relevant to nursing, for example, social science. The effect is to shorten the SRN training course, which students take on completion of the academic part of the degree, although they will have done some vocational work during their degree studies.

The second group, increasingly favoured by the authorities, is a specifically designed nursing Central Government initiative has not yet emerged to resolve the "unholy muddle" in the regional coordination of teacher education created mainly by the demise of the Area Training Boards as far back as 1971.

Admittedly this issue has been "hanging fire" while the Government discussed what sort of replacement structure should exist for the management of higher education after the shelving of the Oakes Report. A statement that the two were inseparably linked was given in a letter from Lord Rhodes Boyson, junior minister at the Department of Education and Science in July, saying that no decision on regional structure could be taken until such a national body was set up. Yet although the latter is billed to make its star appearance shortly, there are no signs of a concomitant regional structure.

The latest and most unusual group in the region is the East Midlands Regional Consultative Group which met for the first time in October 1980 after the region's ad hoc steering committee had withered away. Its membership is almost identical to the latter, but it has the distinct advantage of having no allegiance either to central or local government or any other vested interests.

Therefore, although the universities of Nottingham, Leicester and Loughborough have acted as midwives to the group, they have no more powers than the other representatives on the committee such as teachers' training institutions, local education authorities, the Council for National Academic Awards and the National Association for Teachers in Further and Higher Education.

Every chance of recovery

Higher education traditionally has been associated in the public mind with academic scholarship and the training of elite professions like doctors and lawyers. This week we begin a series of articles looking at the many other groups—such as journalists, social workers and musicians—whose training is becoming an ever bigger part of university and college life. Here DAVID JOBBINS discusses new developments in the training of nurses.

degree, in which theory and practice are far more closely integrated, and all subjects studied have direct relevance to the profession.

The evidence suggests that this trend is correct, for there are signs that integrated courses are more successful in terms of completion rates. The value of the sandwich alternative is for students not on a certain of their career intentions.

In 1971, entrants to sandwich and integrated courses were small in number but evenly balanced, 17 opting for the former and 16 for the latter. By 1975 integrated courses were well in the lead, with 104 entrants against 59 for the former. The trend continued in 1979, with integrated course students increasing to 190 against a fall in sandwich students to 48.

Degree courses remain only a minority method of entry to the profession. Most train at one of the 200 training schools, while with hospitals and scattered around the country. There are two schemes: three years for a State Registered Nurse and two years for State Enrolled Nurses.

The basic entry requirement for training as an SRN is two O levels, but many schools set their own standards, some being able to ask for a minimum of five.

For the SRN no formal entry qualification is demanded, and the method of assessment is the SRN is the career grade, the SRN is essentially a practical training with limited opportunities for promotion within the profession.

The framework of nursing education is enshrined in statute law, and it was the 1951 Nurses Act which relaxed the law to allow the General Nursing Council to embark on experiments and opened the door for

the later development of degree courses.

It was not until the late 1950s that the GNC became involved in a serious appraisal of the possibility of introducing degree courses. This development implied the construction from scratch of a body of academic knowledge around the traditional patchwork of almost random skills which had to that point been the meat of training.

"Among the profession itself there were doubts, which have not yet entirely been resolved, to what extent nursing has an academic content," Miss Rosemary Briggs, the GNC's education officer, said.

The GNC's first feelers went out to London University, and discussions were held about drawing together relevant courses from other areas of study into a collective degree.

"This is what academics find difficult. But you do not want a whole biology course, for example, just because it is relevant to the care of patients and training of nurses," Miss Briggs said.

In the end the talks with London proved abortive. "They had their own form ideas about what constituted a degree subject, to such an extent that it looked as if the students would get no nursing training at all."

In the event it was Scotland which showed the way with the first full degree course in nursing introduced at Edinburgh University in 1960. England and Wales had to wait until 1966 for the first intake to its pioneer degree course. Following the failure to find common ground with London University, what was needed as an institution with a sound academic base allied to an experimental outlook and a recognition of the importance of vocational training.

This emerged in the shape of the new University of Surrey, then in the midst of its transition from a college of advanced technology at Battersden to its new site at Guildford.

Largely initiated by Dame Marjorie Powell, a pioneer in many aspects of nursing, it was a totally new course developed in association with St George's Hospital, and BSE in human biology, it shared the same basic structure of most of the early courses, and was suitable for other workers in the health field although a number of places were reserved for student nurses. Its initial intake was seven students.

The Surrey experiment ran into problems as communications between Guildford and St George's grew increasingly difficult. These became so apparent that the course was about to run, with its last intake in 1975.

In illustration of the trend away from the sandwich structure towards degrees in nursing Surrey now operates an integrated course now associated with the Guildford School of Nursing, while St George's runs a similar one with Chelsea College—evidence that London University's early reservations have been overcome.

When those early talks with London ran into trouble a course leading to a diploma in community medicine was developed at Manchester University in association with the city's hospitals. This proved so successful in providing a suitable entry to nursing for educationally better-off applicants that it was eventually converted into a degree course.

In 1974 the university appointed its first professor of nursing, Miss Jeanne (now Baroness) McFarlane. She remains the largest centre for degree work, with about

30 students a year graduating. The growth in extra places called for by the committee headed by Professor Briggs coincided with the appearance of the polytechnics, and it was natural that they should be considered to play a part in the task.

Their philosophy of vocational training was theoretically well matched to the task but again the conservatism of some sections of the profession became evident.

"There was a division of opinion whether this was a good thing, whether or not we were lowering the status of the degrees by going into the polytechnics," Miss Briggs said. "But I think they are good courses."

First off the mark was South Bank Polytechnic in London, which launched its BSc in nursing studies in 1973, followed by Leeds Polytechnic in 1974.

The Leeds course, linked with the city's St James's hospital nursing school, ran for six years before being redesigned.

The problem with the Leeds course—and others—was that it had been designed by academics without nursing backgrounds, and it lacked a true nursing ethos, its redesigned form, now in its first year, it includes a more solid theoretical framework.

Despite this apparent shortcoming, graduates from Leeds are in high demand, and there are few problems of integration into the profession.

Newcastle Polytechnic used to run a course but this ceased because of difficulties in finding a suitable course leader. This year has also held up the opening of two new courses—at Bristol Polytechnic and at Southampton University.

"This has been one of the inhibiting factors in the expansion of courses," Miss Briggs said. Bristol and Southampton had been trying for a year to appoint a suitable person, and had only just succeeded, making starts before 1982 unlikely.

The involvement of the polytechnics has introduced a third partner into the process of course validation—the Council for National Academic Awards. It is instructive to compare the standards in which Sheffield Polytechnic made its mission to the CNA which the much slimmer documents demanded.

Next week: Ngya Craguer on sport in higher education.

the oldest still existing national committees in teacher education for universities, and PCET, a later but equivalent development for the polytechnics.

UCET was formally constituted in the heydays of the 1960s through an amalgamation of the Conferences of Institutes Directors and the Conference of Heads of University Departments which it was felt should be brought together in a permanent secretariat as a result of the major expansion in teacher education.

The council operates through a structure of committees, is recognised by the DES, its main concern over recent years has been common to other sectors, such as the short age of specialists, such as the mathematics and English requirements, and the position of the PGCE versus the BEd.

UCET says that its most important function is to promote and protect the interests of teacher education in universities. At a time when the sector is threatened and where it needs to be eminently flexible to take immediate action. The most definite items on its agenda for the future or PGCE numbers, part-time fees, the position of advanced courses, and the over all question of regional machinery.

PCET serves a very similar function. It is composed of representatives of all polytechnics. Its establishment in 1976 after the mergers of other colleges with polytechnics arose from the realization that the interests of polytechnic education units were very different from that of the remaining unscathed colleges.

PCET like other teacher education bodies, is also concerned that the image of teacher education caused by unemployment among teachers should be removed. It is anxious that the schools should be made more aware that rationalization has led to a reduced teacher profession with higher qualifications and therefore greater opportunities for employment both in teaching and other fields.

But what about the other two committees, UCET, probably one of

Patricia Santinelli

from page 11



I had no share in his attitude about the great world, its honour and its rewards. There was a different, not of sexual inclination. Nothing, however, was of literature and scholarship, and as I explained, there were difficulties even in those affinities. That friendship might have been made, as he would say, "as noted in music are." For one another, I declared, "as noted in music are." For one another, I declared, "as noted in music are." For one another, I declared, "as noted in music are."

The author is King Edward VII professor of English Literature at Cambridge University. Next week R. D. Anderson will discuss the origins of his intellectual formation.

THE PERIOD 1977-79

On various occasions during his stay in the various prisons, Tolstoy was harassed by the police and the military. There, in those torturous struggles, he was arrested for participating in a revolutionary group, though he was not a revolutionary himself, and was sentenced to death, only to have the sentence commuted at the very last moment to one of penal servitude and exile.

On the "brush with death" as he himself remained with Dostoevsky for the rest of his days as a mortal, his extreme preciousness to him, his "blue house of life" as he described it, "the house of life" and of his *katerwa*, or painful servitude in Omsk, and emerged from it as paradoxical but utterly unflinching commitment to the belief that there is nothing more beautiful, profound and "positive" than "tragic" and "positive" "wonder" and even if it were "ruined"

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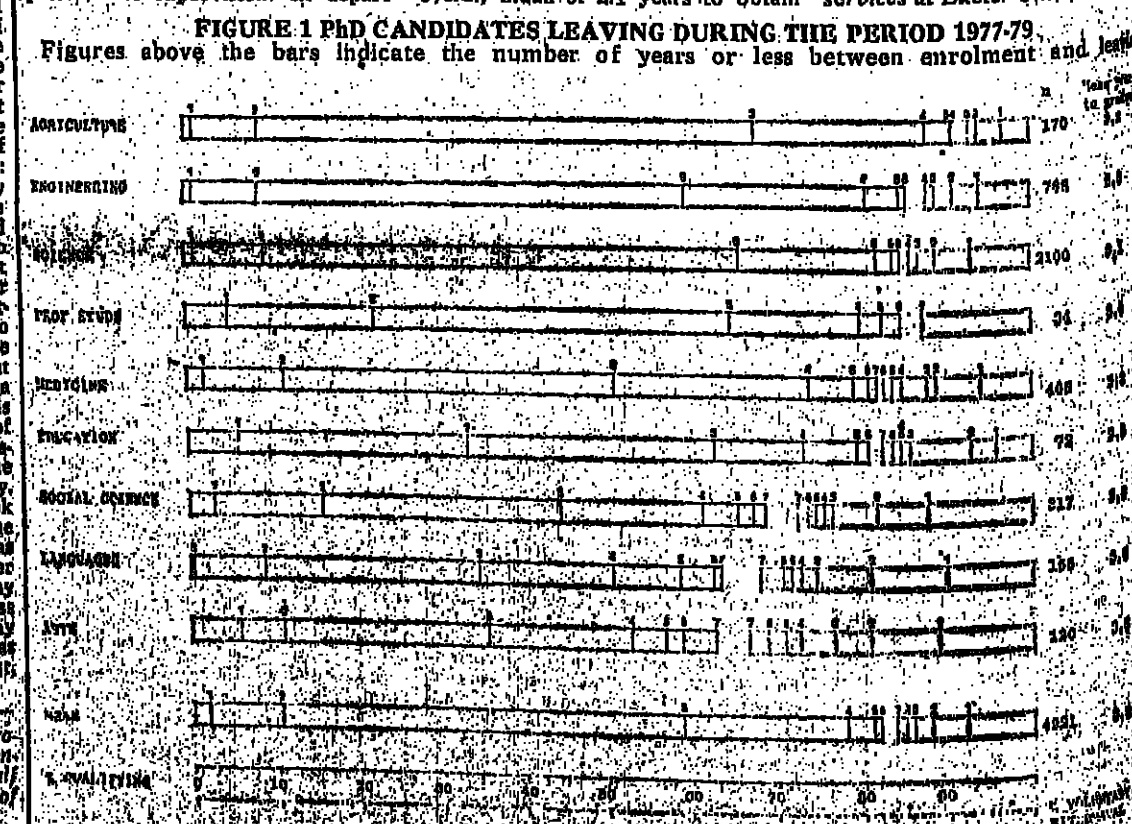
There is no compromise, strictly speaking, no easy accommodation to be reached between Dostoevsky and his reader. One puts aside one's preconceptions, particularly those properties which anticipate from a novel a well-constructed plot or a novel's characters or plausible behaviour, when one enters the world of Dostoevsky's fiction. If much English fiction bears a resemblance to chamber music or small orchestral pieces, Dostoevsky's major work has the extensive properties of symphonic music, but carried forward through violently clashing chords and intense crescendos.

divine powers are instances of lives tested against ideas and subjected in the process to dramatic purging in crucibles of doubt.

For the human problems are never stated categorically in Dos toevsky; they are always argued, opposed to each other in confrontations between advocates of the divine or the natural, brilliantly and paradoxically illuminating for us by such set pieces as Porfir's second interrogation of Raskolnikov, Stavrogin's nocturnal visits to his "disciples," and Ivan Karamazov's discussion on the nature of justice in *Rebellion* and the final

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BOOKS



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BOOKS

Conservationist's anthology

Environmental Awakening: the new revolution to protect the Earth by Rice Odell
Harper & Row, £8.50
ISBN 0 8410 630 6

The Conservation Foundation in the United States was founded in 1948, and for the past 15 years has published a newsletter. This book brings together extracts from that newsletter, and so forms a record of the concerns of the foundation since the awakening of public interest in the environment in the 1960s. It is a sort of anthology of the opinions of dozens of people, from political leaders to junior members of college faculties, on such issues as food supplies, water, population, pollution from chemicals, energy, and the popular panacea for injuries to the environment: appropriate technology.

The conservation movement in America has a long and honourable history. It began long before 1948; the Sierra Club and the Audubon Society were active for decades before the Conservation Foundation appeared. Vogt's *Road to Survival* and Osborn's *Our Plundered Planet* were published in 1948 and Leopold's essay on *The Land Ethic* in 1949. National Parks were inspired by officials in the American public service over half a century ago. So the title of this book—"awakening"—has to be examined critically. The episode which Odell calls the "Big Bang" in the late 1960s did indeed cause an eruption of anxiety about the vulnerability of the environment and the need to protect the Earth. But policies to protect the Earth have for the most part been policies to protect man from the consequences of his own lack of foresight, not to protect nature for the sake of nature.

There is an important difference between a non-centred policy for the environment and a nature-centred policy. Man's impact on the environment in the past 30 years has scared him into devising quite efficient man-centred policies. The Control of Pollution Act of 1974, the environmental programme of the

European Community, the Environmental Protection Agency in America: all these are essentially insurance policies (and at quite a high price) against over-exploitation of land, air, and water. But since these policies are to protect man, they can quickly slip from being a high priority if they conflict with other policies to protect the interests of man. Hence intentions to oppose the Alaska pipeline, for example, evaporated under the menace of OPEC. Unsolved problems about how to dispose of nuclear wastes are not a sufficient deterrent to the building of nuclear power stations if the alternative is a crippling shortage of energy.

So in the search for an environmental ethic we have to ask ourselves frankly: Are there any conditions under which we would put the "interests" of nature before the interests of man? And we have to put "interests" in quotation marks for one, but not for the other usage in this question because it is arguable whether nature can be regarded as having interests. Arguable or not, laws are being made that do imply that animals, plants, trees and landscapes, in a sense, have rights. The natterjack toad makes no contribution to human welfare, but it is an indictable offence to kill, injure, or possess a natterjack toad. The Purlish louswort cannot be said to play an important part in the economy of the United States, but the building of a reservoir in Maine has been suspended because it might endanger this modest and rare plant. So we are in a strange situation: we have no clear notion about the rights of animals and plants, yet we are beginning to legislate on the assumption that they have rights.

The American Conservation Foundation is a responsible and serious-minded body. Along with many other conservation lobbies it is playing an important part in keeping concern for the environment on the boil in America. So I opened the book in the hope that it would do one (or both) of two things: put the present movement into its historical perspective, and offer some original reflections on the idea of an environmental ethic. Alas, the book disappoints anyone who hopes to find in it either of

these things. It tells us practically nothing about the historical movement of the environmental movement (mention of the Sierra Club comes only incidentally in the text), the final chapter, on values, makes no advance beyond the incomparably more eloquent exposition in Leopold in *A Sand County Almanac*.

What, then, does the book contain? It consists of scores of quotations, loosely strung together, that very familiar topics, for example, the guilt-ridden feeling we have should have) that there is food in the undernourished people of the world but they can not afford to have it brought to them; or that if we do not stop polluting, the Ancient Mariner's

Water, Water, everywhere, Nor any drop to drink, —nor any drop for irrigation—another of the world's famous tragedies; that family planning is essential in the use of the land; that the dispersal of the calls, are essential if we are to avoid disaster.

The sources of information in this book are mostly journalistic and not always reliable. For instance, it is a pity to state that concern about carbon dioxide is a new phenomenon, and then, as the support for this statement, to quote a paragraph by Callender written in 1937, for the prediction that carbon dioxide might change climate belongs to more remote antiquity: Arrhenius in 1896 and Chamberlain in 1899. And when Odell discusses the ethical dimensions of environmental policy, it is a pity that he quotes only Aristotle in *Politics* and not the more relevant *De Anima* or *Nicomachean Ethics*.

Readers of *Mechanics* have been told that they are recommended to buy the book. If you find it in the library, the chapter on historical background (the best in the book) and through the rest.

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Plight of the single homeless

The Survivors: a study of homeless young newcomers to London and the responses made to them by D. Brandon, K. Wells, C. Francis and E. Ramsey
Routledge and Kegan Paul, £6.50
ISBN 0 7108 0468 0

Helping Destitute Men by John Leach and John Wing
Routledge and Kegan Paul, £6.50
ISBN 0 7108 0468 0

The plight of the single homeless came to prominence in the 1970s and these two books are both the products of government-funded research into the problem. Each contains a more or less explicit statement of the extent to which the authors have not analysed this problem and reflected on what it means for the state and society.

Helping Destitute Men looks at the other end of the spectrum—older men who have been homeless for a long time. They examine the chronic problem of the elderly homeless, and the value of voluntary projects providing accommodation for single homeless, and also reception centres in London.

W. D. Somerville

and supported only by the most tenuous evidence. Choosing as the sample a group who had been in London for so short a time is anyway surely inappropriate for a study of survival: these young people had only just dipped their toes in the water. In fact those individuals tracked down in the follow-up survey a year later were found to have moved to other parts of London. They may have enjoyed the pace and excitement, but they were in danger of encountering both the law and social services again—and of falling to "survive". The book's extensive use of quotations is most valuable in conveying an authentic picture of the young people but unfortunately the authors have not analysed this material and reflected on what it means for the state and society.

Helping Destitute Men looks at the other end of the spectrum—older men who have been homeless for a long time. They examine the chronic problem of the elderly homeless, and the value of voluntary projects providing accommodation for single homeless, and also reception centres in London.

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Suzanne MacGregor

BOOKS

Insights into the intricacies of mechanics

Mechanics by W. Chester
Allen & Unwin, £15.00 and £7.50
ISBN 0 04 5100 58 6 and 59 4
Introductory Mechanics by C. D. Collinson
Edward Arnold, £7.95
ISBN 0 7131 2786 4
Classical Mechanics, second edition by Herbert Goldstein
Addison-Wesley, £9.95
ISBN 0 201 02969 3

These three texts are all aimed at university students of mathematics or the physical sciences. However, while the accounts of Chester and Collinson are primarily at the level of first-year undergraduates in mathematics or physics at British universities, that of Goldstein is appropriate for an American graduate or perhaps British third-year undergraduate, course in physics or applied mathematics. One of the differences is that Goldstein's book is more concerned with the Lagrangian and Hamiltonian ideas, which occur early and with detail in Goldstein, late in Chester and not at all in Collinson. Thus Goldstein's book should naturally be compared with that of Landau and Lifshitz (*Mechanics*), while those of Chester and Collinson should in diverse ways be regarded as closer in spirit to the classics of Lamb (*Dynamics*) and Sygne and Griffith (*Principles of Mechanics*). These comparisons are an initial rough guide only, for example, Sygne and Griffith devote much attention to Lagrangian and Hamiltonian systems in the later chapters of their book.

Before any further comparative remarks are made between these three volumes, it is necessary to describe the subjects of the books. Chester's *Mechanics* has chapters on vectors, kinematics, dynamics, statics, and energy. Collinson's *Introductory Mechanics* has chapters on vectors, kinematics, dynamics, statics, and energy. Goldstein's *Classical Mechanics* has chapters on vectors, kinematics, dynamics, statics, and energy.

Eric Ashby is Chancellor of Queen's University, Belfast, and a Fellow of Clare College, Cambridge.



An "absent" (right) competes against an "algebraist" in a 16th-century poem. Taken from *Mathematical Circus*, more games, puzzles, paradoxes and other mathematical entertainments, by Martin Gardner, published by Allen Lane at £3.95. The chapters originally appeared in the author's regular "Mathematical Games" column of *Scientific American*. As a 65th birthday tribute to the world's greatest exponent of popular mathematics, Gardner's treatment have written a collection of articles in the style of the *Mathematical Circus*, published by Wadsworth International of Belmont, California.

Hamilton's principle or the calculus of variations, and on non-linear problems of dynamics, including autonomous systems, for which the phase plane is a natural mathematical tool, and the use of method of averaging.

The book is a very scholarly account, and forms an excellent introduction to applied mathematics and its associated mathematical methods, through the study of Newtonian dynamics. I believe it forms a worthy replacement for *Dynamics*, unhappily no longer available, and I find the balance and treatment of material somewhat more satisfactory than that of Sygne and Griffith, another of Lamb's natural successors.

Collinson's *Introductory Mechanics* contains chapters on mathematical modelling, particle kinematics, classical mechanics, simple harmonic motion, the Newtonian model of gravitation, three-dimensional particle motion, central forces, special relativity, the motion of a system of particles, relativistic scattering, three-dimensional statics of a rigid body, the motion of a rigid body, fluid mechanics, and Newtonian cosmology. Each chapter is followed by an extensive set of examples.

His approach obviously differs from that of Chester in that other applications of mathematics are discussed, not only Newtonian dynamics, but also fluid mechanics and Newtonian cosmology. More particularly, a stated object of his book is to introduce mechanics to first-year university students who may not have met the subject before, as well as to provide a challenging course for those who have.

It seems that chapters on special relativity, fluid mechanics and Newtonian cosmology may have been included with the needs of this latter group of students in mind.

Chapters one and two treat vectors and basic kinematics very quickly indeed. Vector products are assumed to be known, and are later used, though vector differentiation is defined in chapter three. Newton's laws are stated and discussed, and some simple examples are shown, both for conservative and non-conservative forces, and for statics, dynamics, and relativity. Simple harmonic motion follows in chapter

four, which includes a treatment of damped, forced linear systems of the second order; the explanation could have been contracted a little here by use of complex numbers.

Orbit theory in chapter five is essentially restricted to the inverse square law of force, so that the impact of Newton's immense achievement, in showing that Kepler's first and third laws require the inverse square law of force, is somewhat muted. To his credit, however, there is a good discussion of transfer (Hohmann) orbits between one planet and another. A table of planetary data is included.

Later chapters deal with further aspects of Newtonian dynamics, including the motion of systems of particles, König's theorem (though not given that name), three-dimensional rigid-body statics, the inertia tensor (briefly) and two-dimensional rigid-body dynamics. There is no discussion of gyrostatics, nor of Lagrangian mechanics.

A treatment of the special theory of relativity is included, a topic well within the compass of first-year students of mathematics. Relativistic scattering is also treated, but here I am not convinced that this is really suitable for such students. More particularly, I find the chapter on fluid mechanics, and Newtonian cosmology, not involved for the intended readership. Rare of strain, for example, is too complex a topic at this stage, especially in the hands of the relatively limited experience of classical dynamics.

Collinson's book does have many attractive features, not least the stimulating quality of the writing and its attempt to take a broad view of the applications of mathematics. However, it has not the same depth of study in Newtonian dynamics as Chester's book, I would therefore prefer the latter as a first-year text in classical Newtonian dynamics.

The third book on dynamics, the second edition of Herbert Goldstein's *Classical Mechanics*, is at a quite different level, with chapters on survey of the theory, statics, dynamics, and Newtonian cosmology, and Lagrangian mechanics, the two-body central force problem, the kinematics of rigid-body motion,

the rigid-body equations of motion, small oscillations, special relativity in classical mechanics, the Hamiltonian equations of motion, canonical transformations, Hamilton-Jacobi theory, canonical perturbation theory, and an introduction to the Lagrangian and Hamiltonian formulations for continuous systems and fields.

The motivation for this book lies in the use of classical mechanics as a "springboard" for the various branches of modern physics. A treatment of the "traditional" kind, based on the Newtonian formulation of mechanics, would not fulfil this role. Thus it is desirable to introduce the student to Hamilton's principle, Hamilton-Jacobi theory, action-angle variables, canonical transformations, Poisson brackets and the like, through the medium of classical mechanics. It is this requirement which dictates the early introduction of Lagrangian and Hamiltonian ideas in the text.

Goldstein's book is a marvellous account of the subject, with fine explicit insight into the intricacies of the subject. It is truly a pleasure to read. Although, as mentioned earlier, its true aim is higher, it can be used at second-year level, studies in applied mathematics, especially in relation to Cartesian tensors and gyrostatics. It is more discursive than the book of Landau and Lifshitz, which would not be appropriate at second-year level, and more pointed in its use of tensors than that of Sygne and Griffith.

In summary, I believe that each of these three texts has qualities which make them relevant for courses in applied mathematics in British universities. Chester for second-year students, Collinson for first-year students, and Goldstein for a more general account of the subject and its implications for physics, and Goldstein's for an advanced course in classical mechanics based on Lagrangian and Hamiltonian principles. I am pleased to have each of them on my bookshelf, and to recommend each in its sphere.

J. T. Stuart
J. T. Stuart is professor of mathematics at Imperial College, London.

Classical numerical analysis

Introduction to Numerical Analysis by F. Stummel and K. Hainke
Scottish Academic Press, £9.50
ISBN 0 7073 0130 0

Intended as an introduction to numerical analysis for students of mathematics and physics, who are currently acquiring some practical computational experience, this book contains a great deal of material of a theoretical nature on the principal fields of classical numerical analysis, namely, on the whole, very well presented.

The book's twelve sections are grouped into five chapters. Each section, save section five, ends with a set of numerical examples of applications of those methods described in that section. The first section, on chapter one, on the calculation of functions, contains a discussion of Horner's algorithm, partial sums of series, asymptotic and continued fraction expansions, and best approximation. The treatment is brief, as is appropriate in a book of this level. Section two, on the calculation of zeros, contains an account of the bisection method, the method of successive approximations, the simplified and original Newton methods, the method of false position, and a method involving quadratic interpolation combined with the method of bisection. The treatment here is pleasing, considering the space allowed.

Chapter two begins with a section on interpolation, extrapolation, and numerical differentiation, containing a discussion of Lagrange and Hermite interpolation, and divided differences. Though adequate, the account is rather expounded in the beginning. Inverse interpolation is treated, however, and an adequate treatment of rounding error for both interpolation and differentiation would have been welcome. The second section, on numerical integration, consists of an account of the

trapezoidal, mid-point and Simpson rules, the Bessel, Hermite and Euler-Maclaurin formulas, Romberg integration, and Gaussian quadrature. Again, the account is, on the whole, adequate but rather terse. It is unfortunate, for example, that lack of space precluded a more detailed treatment of the Euler-Maclaurin formula, because it is used subsequently when discussing Romberg integration. As for rounding error, no explicit discussion of singular integrands nor of infinite intervals of integration are included.

Numerical methods of linear algebra are discussed in chapter three. Its first section consists of an account of norms and eigensystems of matrices, including Gerschgorin's theorem and the min-max principles of Courant-Weyl and Poincaré-Fitz. The chapter then continues with a discussion of the use of Gauss elimination with partial pivoting to solve systems of linear algebraic equations, and to calculate the determinants and inverses of square matrices.

Some orthogonalization techniques for the solution of overdetermined systems of linear algebraic equations are described with applications to the determination of Fourier coefficients and to discrete harmonic analysis. The numerical instability associated with, for instance, Gram-Schmidt orthogonalization, and the consequent need to reorthogonalize is not discussed. Neither is there any mention of the difficulties associated with the numerical instability which can arise when orthogonalization methods are used to solve the normal equations for the linear least squares problem. The final section of the chapter with a rather full discussion of the Jacobi and Gauss-Seidel methods, but although over-reliance is mentioned, briefly, no procedure for estimating the relaxation parameter is given.

The book does have a number of weaknesses. There are no exercises in the widely understood sense, and there are no flow diagrams or clearly laid-out algorithms from which the reader may write computer programs. Another weakness is the lack of any explicit statement of the results from linear algebra and analysis, which are assumed to be known, together with references in which proofs can be found. There is no author index. References are few, and the bibliography is not very recent. Despite this, however, the strengths of the book outweigh its weaknesses, and at £9.50 for a paperback edition, it is difficult to find a text at this level which contains so much.

M. A. Wolfe

Chapter four, on systems of non-linear equations and eigenvalue problems for matrices, begins with an account of well-known iterative methods for solving systems of non-linear equations, the treatment of the convergence theory being unusually detailed for a book at this level. The following section on eigenvalue problems for matrices, unfortunately does not discuss the efficient LR and QR algorithms but it should provide a very adequate introduction to the more advanced texts in which such procedures are described.

Chapter five, on numerical integration of initial-value problems, consists of two sections—one containing a very nice treatment of consistency, stability, and convergence of one-step methods for first-order initial-value problems; the other a discussion of explicit, implicit and predictor-corrector multi-step methods.

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M. A. Wolfe
M. A. Wolfe is lecturer in the Department of applied mathematics at the University of St Andrews.

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Compiled by C. COULSON-THOMAS

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—Milton Friedman (January, 1981, £15.00)

DEMOCRACY, AUTHORITY & ALIENATION IN WORK

Workers' Participation in an American Corporation

John F. Witte

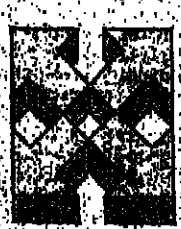
Having joined a large Los Angeles-based corporation as a participant-observer in a project in workplace democracy, Witte now presents an analysis of the first three years of that project. He focuses on the problems, promises, and potential of workers' participation in an American setting, and considers that this will be extremely difficult to achieve given the widely held American faith in meritocracy and the concomitant belief in corporate authority and distribution of influence and reward. It is this commitment to meritocratic norms, Witte believes, that explains the limits of democracy in economic enterprise. (January, 1981, £22.00)

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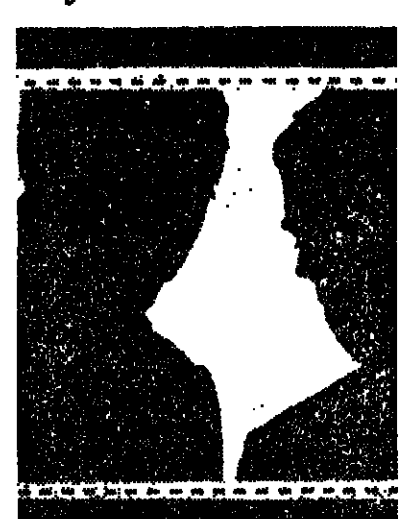
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THE FUTURE OF MANAGEMENT EDUCATION

Prepared for a world market

Continued from page 21

William Voris looks at the problems facing managers beyond the 1980s



The changing international order. We are in the middle of the North-South, East-West debate. The developing nations, or so-called "South", are not going to be content to get handouts from the wealthy north. Managers of multinational corporations wishing to work with developing countries because of their resources, because of their markets, because of their geography, are going to have to face up to growing antagonism. Detailed knowledge of differing cultures and languages is going to be extremely important. I predict an equalization of political power between the North and the South within the next 30 years. These developing nations are not going to be held back.

Changing values and social beliefs. There is no question in my mind but that hierarchical authority is diminishing. The idea of the management pyramid with the complete authority accountability and responsibility originating at the top is changing. Already there is a growing demand for more participation in decision making, and an increasing emphasis on equality. We Americans have our own value system and cannot understand why everybody else does not buy it. Hardly anybody will. We are going to have to face up to this fact. There are peoples in this world who have been pummeled and pushed, disdained and colonized by the British, French and Dutch. This is changing and it is going to change decision making. The growing trend towards non-economic societal goals, meaning that there is much more to life than making a living, will tend to constrain the authority of management and the ability of management to motivate. The changes that are taking place in society will demand a very broad-based manager at all levels. By that, I mean managers in the supervisory role on the front line in middle management, and those at the top.

Changing attitudes toward institutions. There is a growing tendency now for people worldwide to be sceptical about traditional institutions. Those of us who have lived in foreign countries are aware of the widespread contempt that people have for central government—for authority of any kind. They are so used to bribery and corruption, high-handed tactics, and cruelty, that they just do not trust anyone who may be in the government. We are getting that way in the United States. The attitude of contempt towards the Congress. They show the American people really do not have faith in our legislative branch. We have an interesting paradox. In the United States where we have a free press, we are asked to increase the standards of peoples. There are going to have to be more job opportunities with better pay, which means wealth must be created and jobs must be created. On the other hand, organizations and managers must couple this with the improvement of the quality of life. They must give the employees a chance to get more satisfaction from their jobs and their lives. This means making jobs more interesting and more meaningful. People from developing nations are going to be pressing hard for a redistribution of wealth and for wealth-creating techniques, such as the technology that the western world has.

Managers of the future will be torn between two very important variables. They are going to be asked to increase the standards of peoples. There are going to have to be more job opportunities with better pay, which means wealth must be created and jobs must be created. On the other hand, organizations and managers must couple this with the improvement of the quality of life. They must give the employees a chance to get more satisfaction from their jobs and their lives. This means making jobs more interesting and more meaningful. People from developing nations are going to be pressing hard for a redistribution of wealth and for wealth-creating techniques, such as the technology that the western world has.

tions will have to be more than it is at the present. Generalists, I mean, people who have a depth of history, literature and arts, culture, language. The manager must have knowledge of the public opinion, a deep understanding of where his country is going to have to be. The changing relations of the world are going to have to deal with more satisfaction, job enjoyment, flexible scheduling and opportunity. Employees are much greater value in decision-making. Already, the first appointment of a business graduate to the top post in a major British company, Mr Christopher Hoare at Courtauld, is a symbol of future change.

On behalf of industry it is pertinent to recall that, when in 1960 the Foundation for Management Education discussed with Government the subject of university post-graduate management education, the University Grants Committee made it unequivocally clear that, if industry expected Government to fund university business schools and management centres, industry itself must play a major financial part in the start-up stage.

Steps were therefore taken for funds to be raised—in 1960 for some modest pilot projects and then in 1964, after the publication of the Franks report, for the establishment in joint partnership with the UGC of the London and Manchester Business Schools and for developments at several other universities.

During the 1960s Government and FME were aiming for a supply of about 2,000 MBAs a year by the following decade. In fact Britain has now reached an annual yield of only 700 United Kingdom nationals and demand continues to outstrip supply.

In both the abstract and sartorial senses the habit of learning has not traditionally been doused with comfort and enthusiasm by industrial business leaders in the United Kingdom—certainly not by comparison with those in competitor countries where a much larger proportion of highest ranking managers has customarily profited from the benefits of higher education.

A Department of Industry study in 1971 showed that, while in Britain about 50 per cent of chief executives had a degree, in Sweden the figure was 77 per cent, in France 83 per cent and in Belgium 85 per cent. The expansion of universities and polytechnics and the growth of management education during the past 20 years are, however, already changing the face of boardrooms and perhaps the first appointment of a business graduate to the top post in a major British company, Mr Christopher Hoare at Courtauld, is a symbol of future change.

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Unsatisfactory though these figures are, however, it is important to emphasize that our university management schools and industrial management centres (based on polytechnics and colleges within 12 regions of England and Wales) cover a far wider range of activities than postgraduate education.

But it is the increasingly expanding and diverse field of post-experience activities that much of the creative tension and constructive interplay between "management and learning" must lie in the future. Britain is fortunate that our schools and centres have come strongly to appreciate this in the

The art of working together

last few years and are probably more advanced in their techniques and interrelationships with client organizations than those in any other country. It is up to industrial and commercial companies, the public services, and government, local and central, to exploit these opportunities.

For it cannot be disputed that our management schools have an enormous potential contribution to make towards improvement in the managing of every sector of the national life. They can contribute first to the development of the individuals within an organization, and second to the work and practices of the organization itself.

It is to the former that most effort and attention has hitherto been given, through the courses and programmes held inside the schools themselves and often now in company with the help of faculty from the schools. But in recent years a considerable amount of time has been devoted by the academic institutions to the activities and problems of client organizations.

The expansive integrating nature of management education must be emphasized. First, like medicine it is multidisciplinary, bringing together subjects and disciplines which have originally evolved independently. It draws its teaching faculty from a diversity of sources, academic and industrial. Secondly, the nature of the demands made upon it foster and strengthen the links linking the schools with their client bodies.

Thirdly, the three activities of teaching, research and consultancy will become even more closely related, both in terms of the thrust of the schools and of the needs of industry and other organizations. Industrial and management education is integrative in its relationship with society at large.

In a *THESE* article at the end of last year Professor Roy Niblett wrote: "The social and moral consequences of applying so many of the skills that can be learnt in the schools and centres have come often studied in remarkable isolation, and as if this was possible without disaster to both. History is neglected, as if the present could be understood without any real entering into the past. A greater depth and understanding of humanity is what our higher education is so much in need of."

I am glad to say that an increasing number of industrialists and academics are responding by thought and action to the kind of approach to issues which Professor Niblett is invoking. A few years ago, the late Michael Pocock, chairman of Shell, presided over a small group of businessmen and educationalists who produced a kind of blueprint for the future education and training of European managers, which laid great emphasis upon the non-cognitive or affective aspects of management training and development. And the Pocock report helped to inspire and promote a more imaginative two-year project, by the European Foundation for Management Development.

But with the inevitable emphasis in management schools and centres upon the more immediate needs and problems of industry, present activities have so far produced only a limited impact. Although the opportunities for the growth of new developments at the schools are currently circumscribed, taken with the enlightened financial help of industry, these business schools in the United States which have introduced political scientists and business historians into their faculties have received immense benefit from them.

There is in fact much that can be done in this area, and it would moreover happily accord with another aspect of management education—its integral contribution to continuing or life-long education, the procedural conduct of which more positive attention is at last being paid by the universities.

But let me end by entreating more companies in industry to come closer to the university management schools and regional management centres, in ways which some of them are already applying—by involving the help of the schools in their industrial relations and other management problems, by opening their doors for research and case studies, by enabling more of their managers to take part in some of the excellent training programmes which are available, and—always important—by assisting them with some of their financial difficulties in a mood of enlightened self-interest.

Philip F. Nind

The author is director of the Foundation for Management Education.

Learning the skill of taking risks

There are two key elements which industry regard as essential in management education: the acquisition of the skill of working with people to achieve results; and the development of the ability to make judgments in a working environment where the priority is to make the most appropriate decision quickly, rather than at perfection.

The first of these skills is partly acquired by studying behavioural science and industrial relations. Such studies should include an understanding of the complexity of the environment in which industrial relations take place. This requires not only an understanding of the values that this environment represents, but also an appreciation of the pressures applied to people who work in this field. There also needs to be an understanding of the power balance in any industrial relations situation and ways in which power can be used legitimately and how it can be frustrated. This aspect of management education needs to include a practical element and must take place within the background of the world of work. If the full potential of this approach to industrial relations were to be realized, then the opportunities which it would present in industry to achieve change would be substantial.

The need to associate practice with theory is equally true of the other essential feature of management education, the development of the skill of making pragmatic judgments. Polytechnics have always accepted that management is a practical process, rather than a

wholly scientific one. They hold the view that it is not possible to isolate the variables of a management situation and compare them with a genuine control group. This does not mean that management education should not contain elements of formal learning in such subjects as labour law, market research and accountancy, but it should also include the teaching of the practice of selling and making decisions on expenditure.

Central to this teaching of practical management is the notion of risk. A detailed knowledge of business subjects is necessary, but not sufficient to develop the skills associated with risk taking. A sound knowledge of these disciplines, together with a firm base in quantitative skills, must be the basis of the risk taking, but does not eliminate it. Risk taking is normally best taught by using teachers who are themselves very much involved in business at the senior level and associated with the theoretical work. Many polytechnics have found that an approach to teaching management which involves teachers, seconded from industry and commerce, teaching courses on a part-time basis, which is very much appreciated by industry, is a further point with regard to the subject matter of management education is the need for all managers to command quantitative skills. This does not mean that courses in management require prior elements of advanced mathematics. What all managers need to have is an ability to cope with information

that is presented to them in quantitative terms and a capacity to deal with concepts involving orders of magnitude.

Apart from these essential features of the curriculum of management education, there is also the need to develop a broad understanding of the various functions of management and how they fit together in a total system. They should also contain elements which lead to an understanding of management as an empirical system for getting things done and an awareness of the importance of the economic and cultural environment within which an enterprise operates. The background of this general education should also offer the opportunity for an individual to develop a particular skill to the highest level.

This educational approach should normally be pursued at postgraduate level by students who have already had a number of years in industry in which a skill has been acquired. The qualities required of managers appropriate to this level of education include not only high intellectual ability, but also the sophistication of thought and capacity for decision-making to apply that ability in very demanding circumstances. Since there are few more important decisions with regard to the nation's wealth-creating activities than the selection of future senior managers, the selection process for management courses should be carried out with very great care. It follows that it is more important

Continued on page 24

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THE FUTURE OF MANAGEMENT EDUCATION

Learning the skill of taking risks

Continued from page 23

to identify a few excellent graduates capable of meeting the demands of a rigorous high level course in management, rather than to enrol a large number of mediocre performers.

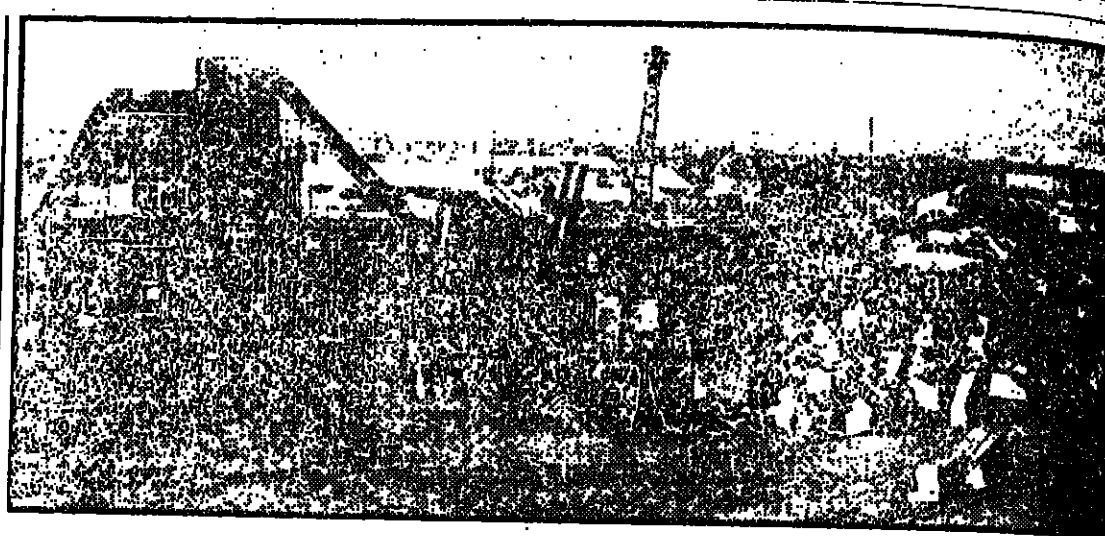
As far as polytechnics are concerned, it is vitally important that they relate their management education to local and national needs and it is therefore essential that every attempt is made to match their output of specialists with industry's demands. The 12 regional management centres through which most, but not all, management education in polytechnics is carried out are particularly appropriate for this task. These centres were established in March 1971 by the Secretary of State for Education and Science in order to develop full-time high level work, including postgraduate and post-diploma in management studies courses, to offer as wide a range of courses as possible in order to meet the needs of regional needs and to act as regional resource centres in the further education system.

The East Midlands RMC has developed programmes for the public sector, including a centre for a research on management programme for the DBS, and with other RMCs has developed strong working relationships with local government training agencies. Another very successful unit is the Anglian RMC, which has a large diploma in management studies course with specialisation in manufacturing, marketing, human resource management and local government and education. The Kingston RMC two week executive development programme has gained an international reputation, whilst the needs of small businesses has led to the Small Business Advisory Centres within the London, Yorkshire and Humberside, Welsh, North West and South-West RMCs. A particularly interesting development at Middlesex Polytechnic has been the establishment of a management centre in Freetown on behalf of the University of Sierra Leone, financed by a grant from the World Bank. The unit is staffed by a small group seconded from the polytechnic, which seeks particularly to run a wide range of short courses on management techniques relevant to local and national needs.

It is clear, therefore, that polytechnics have become well established in the field of management education. They must now be prepared to develop further along the lines I have indicated and grasp the opportunities still relatively untapped by the traditions of the old institutions of higher education.

R. M. W. Rickett

The author is director of Middlesex Polytechnic.



In the waste-disposal business

The purpose of business schools must be to improve the productivity and performance of industry by training better managers and getting these managers to make better use of their resources.

Examples of wasted resources abound. A new product is launched which fails; unneeded redundancies take place; factory processes cause environmental pollution and are a cost to the local community.

A reduction in waste does not come about naturally. The spurs of competition are not always sufficient. Without effective action, organizations become less efficient. This is where business schools can stimulate new ideas to improve performance and broaden the perspective of those who must balance economic and business objectives—short and long term, action between business and business schools must further this broad purpose. The relationship must result in an improved performance by managers.

Large companies mostly financed the formation of the London and Manchester Business Schools and the relationships are complex. However, not all large companies make use of the schools. For example, Ford, BP, Shell or GEC, come on the business schools. The truth is that business schools have only a small share of the market.

The bulk of management training is done in-house. Even when the MBAs recruited by large companies are included, the total impact of business schools is small. This is not surprising. There are several sound reasons why large companies do the bulk of their own management development. First of all there is sheer volume which no one school could cope with. BP has 4,000 first level managers in its head office alone. Then there is the fact that many of the large companies have already running courses before the business schools started. In addition, in-house courses can help in fostering the corporate ethic and corporate identity so important for multinational companies with worldwide

operations. Obviously company staff on in-house courses can be supplemented by consultants and people drawn from business schools on an individual basis. Although large companies recruit many of the MBAs and provide many of the participants on executive courses, this represents only a small part of their management training effort. They have integrated backwards, reducing their costs by picking staff from business schools on an individual basis. This leaves business schools in a weak position.

If the business schools are in a weak position with respect to large companies with their own in-house training programmes, the roles are reversed with respect to medium sized and small companies. In these relationships there is usually no threat of backward integration and the academic staff are not confronted with managers who may be as knowledgeable as they are. This may be an area for productive development, but as we shall see later, the problem this time is not with the customers but with the suppliers—the academic faculty.

At the level of the one year or two year graduate course, the business community recruits a standard product from the business schools. Technically, the business school sells its product to the graduate, but in practice, they come partly because of the value which graduates place on them, when they sponsor promising young managers to attend these one or two year courses, but the number that are subsequently ready to rejoin their sponsoring company has diminished. Sponsorship may become more popular if the time MBA course, to be launched by the Manchester Business School in October 1981, is successful. Apart from overcoming the problem of loyalty, the course will enable students to apply what they have learned back in their jobs soon after the learning experience.

Another form of interaction involves companies sending middle level managers, whose loyalty is not in doubt, on short courses from between a few days to 12 weeks, or a number of separate sessions over a period of time. Again the sponsoring company is buying a standard product offered by the business school.

After the standard products come the more tailored courses. This is the growth area. It is an inevitable integration from large companies and the problems of product differentiation between competing schools. It is a healthy trend as it will allow academic resources more direct access to the needs of business. At Manchester, for example, there is a specialist banking course for British bankers coming from developing countries. The school also plans a project based training activities of managers supervising a group of students, supervised by the INSEAD, in France, next door to the main banking programme and standard courses for managers, there is a course for managers from a group of large European companies.

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ships with a limited number of major companies.

Interaction with the business community also takes place in a number of other ways. Managers at the faculty act as consultants individually or in teams. Individual companies or groups of companies may provide scholarships for students or funds for research in particular areas such as the management of the R & D process. The Manchester Business School Centre at Manchester, in which subscribes to the Euro-Asia Centre INSEAD. These contributions are something between charitable donations and contract research. The company hopes to create a large and important document published some specific benefits.

Finally there may be regular interaction at a programme development or policy-making level. Manchester has biannual meetings with its development group on a committee comprising faculty and management development. This is a spectrum of cooperation. There is also the biannual meeting of the MBS Council on which a distinguished business executive.

The suppliers, or providers of business schools are the academic staff. The staff come from a variety of disciplines and each individual wishes to retain his discipline. This is particularly true for staff at business schools linked to universities where academic traditions determine promotion. Prospective business schools prefer to recruit students in large companies and to retain the discipline and application. They want to generalise across industries rather than come expert in the problems of one area. This enables them to win academic papers seeking to develop the discipline. This research is not always relevant to business problems.

Business schools find themselves, therefore, in a classic squeeze between customers on the one hand and suppliers on the other. Increasingly, customers are doing much of the teaching themselves, the remaining customers are of interest to the suppliers.

In view of these circumstances and remembering the overall purpose of improving management performance, what should the business school do? How should they interact in the future? Four broad conclusions emerge.

First, business schools should resist the trend to specialise. Secondly, business schools should take the initiative in building relationships with the business community. Restricting only to requests is not enough. The school should choose their target customers and work to establish long term relationships. Business schools should develop a proactive business approach, and work to establish long term relationships. Business schools should develop a proactive business approach, and work to establish long term relationships.

Today's key management functions are often staffed by people who are for the most part unqualified. And that is not all, if top management has its way, that is how British industry intends to continue in the future. The spirit of amateurism, which has been so successful in the past, is being replaced by a more professional approach.

One might have thought, for example, that with the difficult days of the oil crisis, the right employees (coupled with the impossibility of getting rid of them once in place) that at least a token gesture would have been to insist

on qualified personnel staff. In expert hands, the staff would be of passing importance to our prosperity, would it not be prudent, if no more, to employ qualified executives? Obviously this line of thought could be developed for each category, but there is one in particular that I would like to highlight and that is advertising and its qualifications.

The term advertising encompasses all persuasive communication functions such as sales promotion, public relations, and so on. A more accurate term might be marketing communications or even communications practice.

For over 30 years there have been courses and relations in advertising initiated by the practitioners themselves and largely administered by them. Thus there has developed vocational qualifications at certificate and diploma levels in quality and very slowly, given by the industry. They have, and do, lack any properly constructed entry base. There is no parallel academic or research activity to support them. There are few educational establishments to teach them, and there are no more than a handful of full-time qualified teachers.

How 'small' became a religion

Schumacher published *Small is Beautiful* in 1973. Both the title and the content of this book were particularly opportune. They have provided both a clarion call and a catchment for a movement which swept through Britain in the 1970s with the fervour of new and a proselytizing religion; acknowledging no traditional frontiers and erecting some new special idols for worship, of which the "entrepreneur" attracts the most admiration.

The social and economic pervasiveness of the movement has been particularly remarkable. The encouragement of small business is a common ground for all three of its main political parties. It is supported by government at both national and local level, by the trade unions, through co-operative movements, and by the Confederation of British Industry, the British Institute of Managers and the Institute of Directors.

There has of course been more systematic and more cautious approval for this new genre, the "small business world" and much of it has come from the field of business and management education. With the ongoing and proper task of guarding, but not stifling, the competence of the management academics would have been unrecognisable not to have taken on board so impressive and forceful a movement. Furthermore, by the time Schumacher's book was published, the subject was already in print for two years.

This "bible" was the Bolton report, a Government inquiry into the state of small business in the United Kingdom. It remains the most important document published on the subject. Based on impressive research studies in the late 1960s, it described and deplored the concentration of business activity which had taken place in Britain in the two previous decades. It argued that our economic health depended on a vigorous small business sector, and proposed measures to develop a climate in which new small businesses could start, develop and flourish.

The interest has indeed been generated. Ten years on, the work of academics in the field of small business management has grown from virtually nothing to a respectable and separate subject area dealing with not only the systemised approval already described, but also the generation of new and specialised academic activities.

By 1972, teaching and research was underway at a handful of universities business schools and for the last five years 30 or so academics and others in the field have been meeting twice yearly to provide an informal steering group for national activity. From this group has sprung an annual conference for teachers of small business management.

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In recent years a number of HNDs have been developed, and it is worth noting that not for the first time, Scotland has led the way with an HND in communications studies. Additionally the new techniques in collaboration with the Quacquarelli Institute for National Academic

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The author is an industrial manager at the Manchester Business School.

THE FUTURE OF MANAGEMENT EDUCATION

Gin and tonic

Continued from page 25

view deal with or impinge upon advertising, but they are fragmented, lack a cohesive purpose, and suffer from the limitation of not being significantly authoritative to produce a ready acceptance, or even serious awareness, by the advertising industry. There is moreover not a single first degree in advertising.

The nearest we get to it is in marketing, and here it is more often at a relatively superficial level. Not surprisingly the United States is way out front in quantity, and arguably in quality. At schools of journalism and in business studies, programmes of advertising as a major are to be found at dozens of reputable universities where the subject is taught at both undergraduate level as well as leading directly onto masters degrees and doctorates. The courses are highly practical and tie in actively with the needs of industry and with self-generated research work which provides an increasingly substantial knowledge base leading to a wide range of textbooks, case studies and other educational resources.

In 1979 the International Advertising Association launched a world-wide advertising education programme at three levels of proficiency, all designed to integrate existing national schemes. The next year the International Public Relations Association produced a major discussion document which is now being progressed actively with a view to the setting up of a world-wide fully recognized advanced qualification. So things are happening. It is just a question of whether we want them to happen here.

Expenditures on advertising in Britain are well into the hundreds, even thousands, of million pounds a year, and it has been observed by at least one authority that over half this money is wasted. Top management would not tolerate such a waste of resources in any other function so why excuse advertising?

The single constraint is to be found among those in industry who hold that advertising cannot be taught, but that what is required is intelligence, creativity, initiative and so on, commonly known by the name of the "gin and tonic" brigade. Such reactionaries see knowledge and personality as mutually exclusive. Coupled with the reluctant industrialists must be even more reluctant academics who do not see advertising as a suitable or even respectable subject for advanced educational establishments.

The real problem is the usual circular one facing the establishment of every new discipline. Employers will accept a really well-founded qualification for which a thoroughly adequate teaching base is required, backed by an ongoing research programme which in turn needs support from the industry to initiate it and sustain it.

Norman A. Hart

The author is director of the Communication Advertising and Marketing (CAM) Education Foundation, a visiting fellow of Bradford University.

Getting the right managerial mix

In my experience the practice of defining the ideal person for a job is not very helpful. What frequently emerges is a paragon who cannot be found or who occupies a post considerably senior to the one described. Nevertheless, there appears to be considerable agreement on the ideal management teacher, both about what they need to offer by way of qualification and ability and also in what activities they get involved. This ideal suggests the need for a trine being.

In respect of qualification and ability, they should have advanced academic knowledge of their subject, considerable practical experience as a manager, and be a good teacher. In respect of what they do, they should teach and do research and consultancy work out of the real world of management. (Figure 1)

A major survey *Education for Management* was published in 1972 by Jones et al which identified the extent to which these ideal qualities were present in the population of management teachers. Significant change has occurred in many educational institutions in the last decade, hence it seemed appropriate to collect new data, and to restrict this to five teachers from each institution who had most recently joined the staff.

The intention was to get a snapshot of these new recruits to the population since they would reflect the current and possibly future trends. All universities and polytechnics who had management departments were sent a questionnaire together with 36 colleges of further and higher education who were members of the United Kingdom Standing Conference of Heads of Management Studies.

Overall the response rate was 55 per cent. The results are shown on the following 3 Venn diagrams in Figure 2. The figures are per cent of teachers having various qualities.

"Higher degree" figures represent those teachers who had a higher degree directly relevant to the subject they were teaching. This figure is used as a measure of their academic knowledge of the subject. They are significant but not surprising differences in the total figures. (University 82.9 per cent, polytechnic 62.8 per cent, further education colleges 27.8 per cent.)

"Management Experience" figures are those teachers who have had a job as a manager, or have worked in a management function, (e.g. as an accountant). (University 67.2 per cent, polytechnic 93 per cent, further education colleges 82.3 per cent.)

The ratio of those with previous jobs as managers to those with previous jobs as functional specialists also varied quite markedly. (University 52.48, polytechnic 71.22, further education colleges 66.34.)

The percentage of teachers having both a relevant higher degree and any sort of management experience show some similarity in the universities and polytechnics (University 52.7 per cent, polytechnic 59.3 per cent, further education colleges 26.5 per cent).

The figures for teaching qualifications include anyone holding a recognized teaching qualification or

TABLE I

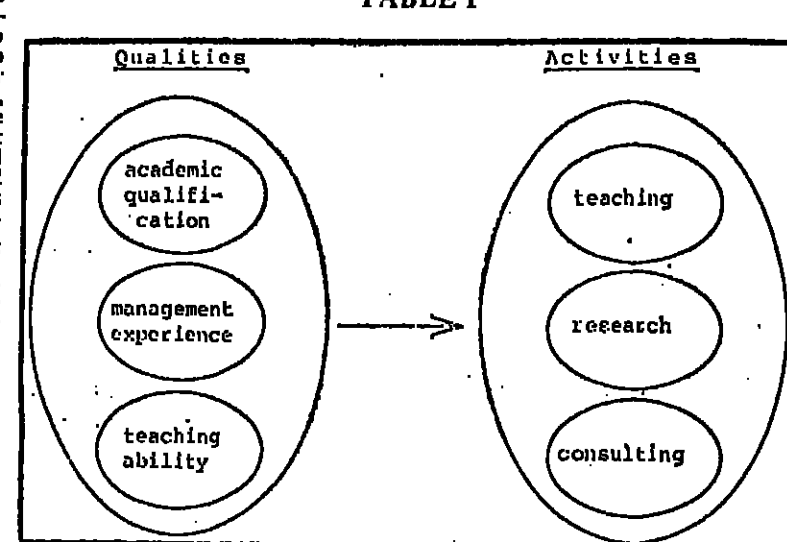


TABLE II

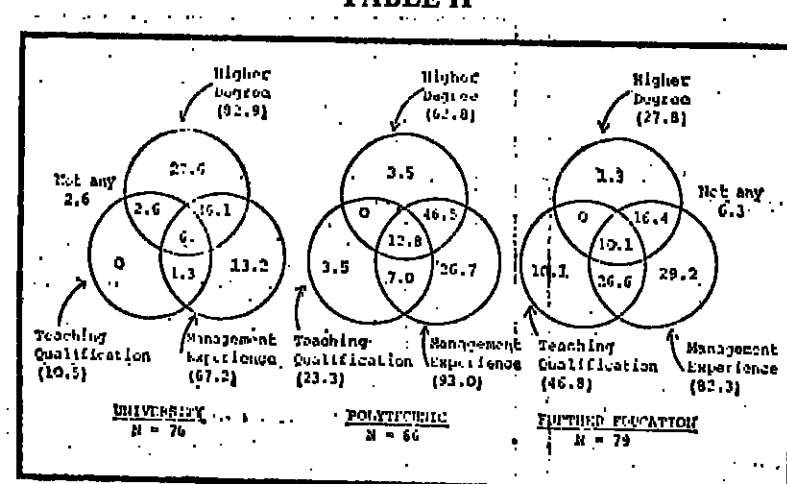


TABLE III

Qualities	Sector	University	Polytechnic	FE College
Higher Degrees	1976	50	20	
Management Experience	1976	67	93	82
Teaching Qualifications	1976	11	23	47
Management Experience	1976	47	35	51
Teaching Qualifications	1976	67	93	82

Figures are combined polytechnic/FE colleges

per cent whose last job was management or management consultancy

who attended the International Teachers Programme. Again there are significant differences between the sectors (University 10.5 per cent, polytechnic 23.3 per cent, further education colleges 46.8 per cent. What is not in general clear from the data is whether these qualifications are based on school, technical or management teaching practices.

The ideal teacher already referred to, who by these measures has a relevant higher degree, a held down management job, and who does exist. The figure (where the three circles overlap in Figure 2) are university 6.6 per cent, polytechnic 12.8 per cent, further education colleges 10.1 per cent.

The question, as to whether management teachers should come from purely academic or management backgrounds presents a somewhat naive dichotomy. It is not a matter of whether it is better to come from one or the other, but how to combine the qualities derived from both.

If a management background is defined as someone with a higher degree and no management experience, then the sample of recently joined staff gave the following distribution (see Figure 2) university 30.2 per cent, polytechnic 3.5 per cent, further education colleges 13 per cent.

If a management background is defined as someone with management experience, but no higher degree, then the sample of recently joined staff gave the following distribution (see Figure 2) university 30.2 per cent, polytechnic 3.5 per cent, further education colleges 13 per cent.

The figures for teaching qualifications include anyone holding a recognized teaching qualification or

current recruiting policy, and the historic background of the institution. However the "either/or" alternative has serious drawbacks. For the "academic" teacher the problem is how to relate theoretical knowledge to the "real" world in which a manager operates. This is a higher, a more complex, a more involved investigation of some management situation. This may give great insight and in-depth knowledge of a very small part of the field.

The degree by research also provides an apprenticeship as a teacher to perform; the research role already referred to and also the role of supervisor to manage student teachers who wish to get these roles by research. Both the more fundamental role of "knowledge generation" which is often reinforced by the reward system. For example promotion based on research grants acquired, publications etc.

These areas of course the hollowed traditions of academia, but some management needs, is to know how to apply knowledge not generate it.

The does not imply that academic institutions are not thought to be generators of knowledge, but that additionally, management teachers how to apply knowledge in such a way as to enable them to behave more effectively in their work situation.

This view may be predominantly a management one, and may raise fundamental issues about the vocational nature of management education. Such a view, however, extends to the teacher in the understanding of knowledge as well as the academic.

The Textile Institute, in this regard that the "academic" based teacher may find the most

difficulty and be least effective.

If we consider management based teachers, there are problems. Their knowledge management may be by very broad but relatively superficial. From practical experience, explaining how a Kolb in *Theories of Group Process* has suggested four processes are needed to complete a cycle.

After the actual experience, reflective observation is the process by which the result or outcome, some action is noted. This is to be followed in Kolb's model, "abstract conceptualization", by forming some theory which provides some interpretation of the experience or some generalization.

Teachers with management experience only, may have had a lot of experience but may have difficulty in conceptualizing it, enough to teach, or to pass on a generalization from it, to a body of knowledge from research partly because they may not be aware of what is going on in the research findings and may be too difficult to teach.

Thus such teachers had a difficulty in identifying management problems or issues, experience. This may be due to levels of scholarship related to academic qualification and the question of whether using experience can ever be more than over simplified prescriptions, success, or anecdotal descriptions practice which worked in a specific situation and is not generalisable.

The reasoning behind the model (Figure 1) of a manager teacher now becomes more apparent and a more precise definition of three components can be attempted. Academic qualification may be seen to embody two components:

● Research ability to hold a legitimate role of knowledge generation and research supervision. This should include the ability to teach on topics and produce publications which are seen as relevant and usable by managers.

● Scholarship which gives a teacher a broad knowledge of management theory and practice, the application of one to the other.

Management experience should have been conceptualized and generalized to some extent or practiced in the light of management theory. This experience is needed to add a vital dimension to the teacher's qualifications.

Teaching ability has some specific and possibly unique characteristics:

● The need to understand the relevant body of knowledge, theory, but to understand how to teach it.

● Since management education is vocational in character, the development is often seen as a range of teaching skills, which are different from those required of the acquisition of knowledge.

● Again since management education is vocational, the range of teaching skills, which are different from those required of the acquisition of knowledge.

Overall since managers are generally active people, facilitating learning may be a more appropriate description than teaching. The range of these qualities will be influenced by the role of the institution and hopefully by the needs of the management situation.

Don S. Blaxter

The author is director of the Centre for the Study of Management and Organizational Studies.

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 - (2) Two Senior Lecturers/Lecturers in Process Engineering.
- Salary scales: Professor, Tsh 34,000 per annum; Associate Professor, Tsh 28,000 per annum; Senior Lecturer, Tsh 23,000 per annum; Assistant Lecturer, Tsh 24,480 to 29,480 per annum. Appointees on expatriate terms will be entitled to an Expatriate Allowance of 50 per cent of their basic salaries (£1 sterling equals Tsh 19.40). The British Government may provide salary supplementation in range £5,982 to £10,734 per annum (sterling) for married appointees, or £4,512 to £8,988 per annum (sterling) for single appointees (reviewed annually, normally tax-free), and associated benefits. Family passages; FSSU; biannual overseas leave.

Detailed applications (two copies), including a curriculum vitae and naming three referees, should be sent to the Chief Academic Officer, University of Dar es Salaam, PO Box 35091, Dar es Salaam, Tanzania, to arrive no later than February 24, 1981. Applicants resident in United Kingdom should also send a copy to the University Council, 90/91 Tottenham Court Road, London W1P 0DT. Further details are available from either address.

UNIVERSITY OF DAR ES SALAAM

TANZANIA

Applications are invited for the following posts in the Faculty of Arts and Social Sciences:

(1) SENIOR LECTURER/LECTURER IN SOCIOLOGY

Applicants should have a Ph.D. in Sociology or a Masters degree with teaching experience at university level.

(2) SENIOR LECTURER/LECTURER IN GEOGRAPHY

(HIGEOGRAPHY)

Candidates should have a Ph.D. in Biogeography or a Masters degree with teaching experience at university level.

(3) SENIOR LECTURER/LECTURER IN GEOGRAPHY

(REGIONAL PLANNING)

Applicants should have done research in regional planning and rural development especially in third world countries. Some practical experience in the planning and administration of Rural Development Projects especially in African countries would be an advantage.

(4) SENIOR LECTURER/LECTURER IN GEOGRAPHY

(PHYSICAL GEOGRAPHY)

Applicants who have specialised in Climatology, Hydrology, or Oceanography would be preferred.

Salary scales: Senior Lecturer Tsh 34,000 to 39,500 p.a.; Lecturer Tsh 28,000 to 33,500 p.a. Appointees on expatriate terms will be entitled to an Expatriate Allowance of 50% of their basic salaries (£1 sterling = Tsh 19.40). Family passages; F.S.S.U.; biannual overseas leave.

Detailed applications (two copies), including a curriculum vitae and naming three referees, should be sent to the Chief Academic Officer, University of Dar es Salaam, PO Box 35091, Dar es Salaam, Tanzania, to arrive no later than February 24, 1981. Applicants resident in United Kingdom should also send a copy to the University Council, 90/91 Tottenham Court Road, London W1P 0DT. Further details are available from either address.

UNIVERSITY COLLEGE, BOTSWANA

Applications are invited for the following posts:

1. SENIOR LECTURER/LECTURER IN PSYCHOLOGY

Candidates should have at least an M.A. or Ph.D. in Psychology, have specialised in counselling Psychology/Social Psychology, have had at least two years' teaching experience at university level; a record of significant publications. Research interests should include those topics relevant to a developing nation as well as classical research involvements. At present, the Department is newly established and would reflect an interest in Contemporary Social Psychology and Psychological issues in the context of Southern Africa.

2. LECTURER IN NURSING EDUCATION

Candidates should have at least a Master's degree in Psychiatric Nursing. Candidates with at least two years' clinical practice and teaching experience will be given preference. Appointees will be expected to: develop Psychiatric Nursing curriculum; establish contact with clinical facilities; teach specific and other courses in the Nursing programme; give academic advice to students. Two-year contract, renewable.

3. LECTURER IN STATISTICS

Candidates should have a Master's degree or equivalent in Statistics. Those with a doctorate will be preferred. Some experience in teaching Statistics at university level also required. Appointees should be able to teach different courses in Statistics as required; assist in the research projects undertaken by the Department and carry out other duties entailed to him/her in his/her field of competence. Salary scales: Senior Lecturer P10,372-P12,584 p.a.; Lecturer P7,212-P11,504 p.a. (£1 sterling = P17.69). In very exceptional circumstances, the British Government may provide salary supplementation in range £1,000-£5,000 (sterling) (reviewed annually—normally tax-free) and associated benefits. Gratuities; insubstantial allowance; family passages.

Detailed applications (two copies), including curriculum vitae and naming three referees, should be sent to the Registrar, University College Botswana, Private Bag 9022, Gaborone, Botswana, to arrive no later than February 24, 1981. Applicants resident in UK should also send a copy to the University Council, 90/91 Tottenham Court Road, London W1P 0DT. Further details are available from either address.

University of London

ROYAL POSTGRADUATE MEDICAL SCHOOL

DEPUTY SECRETARY

Applications are invited from honours graduates with experience in administration for the post of Deputy Secretary. Besides deputising for the Secretary as necessary, the main duties include the servicing of the Academic Board and its sub-committees, responsibility for the School's Registry and generally assisting the Secretary with the academic affairs of the School.

Salary on Grade III for academic-related Administrative Staff i.e. £11,165 to £13,980 a year (upward review) plus £967 a year, London Allowance. Superannuation under Universities Superannuation Scheme.

Applicants are advised to obtain further particulars from the Secretary, Royal Postgraduate Medical School, Hammersmith Hospital, DuCane Road, London W12 0HS (Tel. 01-724 2030 ext. 352) to whom applications (six copies), should be sent naming three professional referees to arrive not later than Friday, 20 February, 1981.

THE UNIVERSITY

DEPARTMENT OF ADULT

EDUCATION

LECTURERSHIP IN MUSIC

Applications invited for Lectureship in Music in the Department of Adult Education, University of Loughborough. The appointee will be responsible for the delivery of music courses to adult students, and will also be responsible for the development of music courses within the department. The appointee will be expected to contribute to the research and development of music courses, and to the general development of the department. The appointee will be expected to contribute to the research and development of music courses, and to the general development of the department.

TECHNICAL

TUTOR

Applications are invited for the post of Technical Tutor in the Department of Adult Education, University of Loughborough. The appointee will be responsible for the delivery of technical courses to adult students, and will also be responsible for the development of technical courses within the department. The appointee will be expected to contribute to the research and development of technical courses, and to the general development of the department.

Salary within scale, £4,795 to £8,095. The appointment will be for two years, renewable. Further details, and application forms, to: Paul Johnson, Establishment Officer, PO Box 81, Loughborough, Leicestershire.

Application forms and further particulars from Paul Johnson, PO Box 81, Loughborough, Leicestershire, to arrive no later than Friday, 18, 1981.

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1991

SECRET

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The dangerous illusion is in the policies of human rights, which it fosters the belief that common words, signify, potent common ideas and ultimately common practices. In 1977, President Carter said that "the basic of human affairs points toward more universal demand for human rights". But, apart from Poland, where, precariously, marxist ideas inspire organized working-class power, such demands in communist societies have no chance of evoking any response,

[illegible]

Our second area of concern is what the NCB reported was happening in our secondary schools. They found that the educational results for comprehensives were worse (even after adjustment) than for pupils in the combination of grammar and secondary modern schools. A particularly worrying feature was that the early comprehensives (pre-1966) came out worst of all on all

and was responsible for commissioning the pamphlet Race Concern. The group also includes Fred Naylor and Antony Flew. I submit that by concealing their interests they were in fact concealing evidence of considerable importance to the readers of their letters.

Yours faithfully,
COLIN LACEY
Professor W.E.B. DuBois

DAVID YORATH,
CES staff.

Cartoon Image

Sir,—Though I am reasonable from personal vanity, I should be made clear that the cartoon that headed my article January 23 was not of me.

Yours faithfully,

Utah's college and university budget, and he probably understands the problems and predicaments of American higher education as well as anyone in the country.

Already the new secretary seems to have modified his views about an important aspect of the Education Department (ED)—whether

Secondly, it is certainly not clear that the kind of managerial insensitivity and bureaucratic indifference and hand-to-hand transfers from which institutions are made to suffer at the hands of local authorities would disappear once an unambiguously national system of polytechnics and colleges had been created. If the experience of the National League for the Blind is any guide, the negative habits are as likely to be intensified as diminished by the abolition of local authority control.

Thirdly, the process of funding non-university higher education through local authorities, although it is grasping for much of the time, does have the virtue of

colleges of advanced technology, and, paradoxically, strengthened by the military policy and the emergence of higher education, of course, has not been unique. During this whole period, and especially in recent years, local particularism has found a long, unsuccessful rear-guard action against the advance of the nationalization process.

But there are many today who would argue that these processes of centralization and nationalization of power must be reversed if the momentum of reform through public enterprise is to be maintained (the alternative is its collapse before the assault of "marketism"). Certainly in the more limited case of higher education there is a strong case for arguing that these historic processes have worked to create an incoherent, elitist, unpopular, and inaccessible system. Even those who reject this sweeping conclusion will probably agree that what we need in the 1980s and 1990s is more heterodoxy not more orthodoxy. Any national body, however broad-based as or even more than in the narrow functional perspective of financial, planning efficiency. Its detailed constitution and powers, therefore, are not secondary questions, especially safely for the special interests that are important to its acceptability. All that can be sold at present is that the signs are not good. A national body is certainly still necessary, but not at any price.

sent rank, if only to symbolize the fact the federal government does have several legitimate roles in education, such as providing access to higher education for students who could not otherwise expect to have it. If the Reagan administration insists on demolishing education, colleges and university lobbyists should no longer use too much political capital in fighting to keep it in the cabinet. They must save their strength for the more important battles that lie ahead, to save the federal high education programmes from the Republican axe.

human rights in Soviet and administrative systems. The Soviet system, assuming military aid to El Salvador (on the pretext of a non-existent Nicaraguan invasion). The ideological functions of such political appearances to Western specialists in the United States, and politicians and publicists, by employing universalistic language to state a highly partisan case for the West, as against the Soviet and Third Worlds, and to promote universal values, in the name of "basic human rights" among the moral infidel, or at least rail against their frequent violation.

There is, however, a more fundamental reason for sustaining the notion of "human rights" — not merely illusory but dangerously so, in the context of international politics. And that is that the very notion of "human rights" is one that can genuinely and safely subscribe to, even in the belatedly secular world of the present world. If that is so, then all the solemn international conventions and domestic constitutions that proclaim such rights have to be seen for what they are: texts to be radically disregarded in interpretation.

For example, for the 1948 Universal Declaration of Human Rights (against which the Soviet Union and Saudi Arabia voted), the 1948 Covenant on Civil and Political Rights, the Helsinki Declaration on

Islamic fundamentalism, or the
communism, but focus, since it
the most relevant to the argu-
on Marxism.

Can a marxist believe in human
rights? (by marxist i have in
orthodox or official marxism). There
are two reasons for doubting
he can, the first more undi-
second less obvious.

Human rights, or "natural
rights, are rights attributed to
humans, on account of their com-
monly nature as humans."
Marx's Theory on Feuerbach,
followers of Marx have known

pression of the existing economic relations". And Lenin stressed that in Marxism, there is "not a grain of ethics from beginning to end". "We do not believe in an eternal morality and we oppose the false morality of all the fables about morality." (On the other hand, actually all marxist writings are full of compassion and moral outrage and the burning desire for a better world, and most marxists are not at all "non-communally sceptical" and become marxists primarily for moral reasons. A paradox we are exploring.)

These attitudes can be explained by a distinctive feature of Marxism which distinguishes it from other socialist political doctrines. According to Marxism, legal and moral rules, specifying what is right and which give people rights, are carried forth by the existence of conflicting interests, arising from class divisions in conditions of social inequality. The moral permit adjudication between such interests, with more or less "impartiality" but true litigation can only consist in the abolition of the very conditions which give them their class character. In a society which is fully equal and free, there will be no need for such rules and rights and morality and justice will wither away, along with the State, and (to quote Marx) "the narrow horizon of bourgeois law will have been reached in its entirety".

Of course, it may be objected that Marx was no marxist, and that

in the policies of human rights, that it fosters the belief that common words signify potent common ideas and ultimately common practices. In 1977, P. V. Carter said that "the basic of human affairs points toward more universal demand for human rights". But, apart from Poland, where, as the marxist ideas inspire organized working-class power, such demand in communist societies have a chance of evoking any response.

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